

---

# ABPerson C Reference

[Carbon](#) > [Apple Applications](#)



2006-07-26



Apple Inc.  
© 2002, 2006 Apple Computer, Inc.  
All rights reserved.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, mechanical, electronic, photocopying, recording, or otherwise, without prior written permission of Apple Inc., with the following exceptions: Any person is hereby authorized to store documentation on a single computer for personal use only and to print copies of documentation for personal use provided that the documentation contains Apple's copyright notice.

The Apple logo is a trademark of Apple Inc.

Use of the "keyboard" Apple logo (Option-Shift-K) for commercial purposes without the prior written consent of Apple may constitute trademark infringement and unfair competition in violation of federal and state laws.

No licenses, express or implied, are granted with respect to any of the technology described in this document. Apple retains all intellectual property rights associated with the technology described in this document. This document is intended to assist application developers to develop applications only for Apple-labeled computers.

Every effort has been made to ensure that the information in this document is accurate. Apple is not responsible for typographical errors.

Apple Inc.  
1 Infinite Loop  
Cupertino, CA 95014  
408-996-1010

Apple, the Apple logo, Carbon, Mac, Mac OS, and Objective-C are trademarks of Apple Inc., registered in the United States and other countries.

Simultaneously published in the United States and Canada.

**Even though Apple has reviewed this document, APPLE MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS DOCUMENT, ITS QUALITY, ACCURACY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. AS A RESULT, THIS DOCUMENT IS PROVIDED "AS IS," AND YOU, THE READER, ARE ASSUMING THE ENTIRE RISK AS TO ITS QUALITY AND ACCURACY.**

**IN NO EVENT WILL APPLE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY**

**DEFECT OR INACCURACY IN THIS DOCUMENT, even if advised of the possibility of such damages.**

**THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. No Apple dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.**

**Some states do not allow the exclusion or limitation of implied warranties or liability for incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.**

# Contents

---

## **ABPerson C Reference 5**

Overview	5
Functions	6
ABBeginLoadingImageDataForClient	6
ABCancelLoadingImageDataForTag	7
ABPersonCopyImageData	7
ABPersonCopyParentGroups	7
ABPersonCopyVCardRepresentation	8
ABPersonCreate	8
ABPersonCreateSearchElement	9
ABPersonCreateWithVCardRepresentation	9
ABPersonSetImageData	10
Callbacks	10
ABImageClientCallback	10
Data Types	11
ABPersonRef	11
Constants	12
Person Properties	12
Person Flags	15
Email Labels	16
Address Labels	17
Address Keys	17
Phone Labels	18
Web Page Labels	19
Related Names Labels	19
AIM Instant Labels	20
Jabber Instant Labels	21
MSN Instant Labels	21
Yahoo Instant Labels	22
ICQ Instant Labels	22
Other Dates Labels	22
Generic Labels	23
Record Type	23

---

## **Document Revision History 25**

---

## **Index 27**

---



# ABPerson C Reference

---

<b>Derived From:</b>	ABRecord : CType
<b>Framework:</b>	AddressBook/ABAddressBookC.h
<b>Companion guide</b>	Address Book Programming Guide for Mac OS X
<b>Declared in</b>	ABAddressBookC.h ABGlobals.h ABGlobalsC.h

## Overview

The ABPerson opaque type encapsulates all information about a person in the Address Book database—an instance of ABPerson corresponds to a single person record in the database. The ABPerson opaque type defines properties such as the person’s name, company, address, email addresses, and phone numbers.

You get a person’s property value using the `ABRecordCopyValue` function. See ABRecord for more functions that get and set properties. See the “Constants” (page 12) section for a list of all the properties, labels, and keys used to access fields in a person record.

Some of these properties have multiple values that are accessed via standard and user-defined labels. For example, a person may have a home, work, mobile, and fax phone numbers. Therefore, the phone attribute is defined as an ABMultiValue object containing NSString objects for each number. See ABMultiValue for more details on multi-value lists and how primary values work.

You can add your own properties to person records too using the `ABAddPropertiesAndTypes` function—that is, attach additional program-defined data to each person record. Because the Address Book database is stored as a property list, these program-defined properties can be ignored by other applications. Note that the AddressBook database is accessed by multiple application and is not encrypted so your application should not store any sensitive information in the database like credit card numbers.

A person may also have an associated picture or image. The image is not actually stored in the Address Book database (a property list)—it’s stored in a separate image file. You can set a person’s image using the `ABPersonSetImageData` (page 10) function, or get an image using the `ABPersonCopyImageData` (page 7) function.

Image files may be local or remote. Local images are any images in `.../Library/Images/People` or images the user has set using the Address Book application. Remote images are images stored on the network. These images take time to download, so ABPerson provides an asynchronous API for fetching remote images.

Use the `ABBeginLoadingImageDataForClient` (page 6) function if an image file is not local and you want to perform an asynchronous fetch. The `ABBeginLoadingImageDataForClient` (page 6) function will return an image tracking number. The tracking number and the fetched image will be passed to your

callback function. Implement your callback function to handle the fetched image. Use the [ABCancelLoadingImageDataForTag](#) (page 7) function if for some reason you want to cancel an asynchronous fetch.

Person records may belong to multiple groups. Use the [ABPersonCopyParentGroups](#) (page 7) function to get the groups a person belongs to. See [ABGroup](#) for more information about groups.

You can also search for records matching a particular “query” you specify by creating an [ABSearchElement](#) object. Use the [ABPersonCreateSearchElement](#) (page 9) function to create an [ABSearchElement](#) object containing your query. Then use the [ABAddressBookCopyArrayOfMatchingRecords](#) function, passing the [ABSearchElement](#) as the argument, to query the database. See [ABSearchElement](#) for more functions that create compound queries.

Your application can also import and export persons in the vCard file format using the [ABPersonCreateWithVCardRepresentation](#) (page 9) and [ABPersonCopyVCardRepresentation](#) (page 8) functions.

The [ABPerson](#) opaque type is “toll-free bridged” with its Objective-C counterpart. This means that the [ABPersonRef](#) type is interchangeable in function or method calls with instances of the [ABPerson](#) class.

## Functions

### **ABBeginLoadingImageDataForClient**

Starts an asynchronous fetch for image data in all locations, and returns a non-zero tag for tracking.

```
CFIndex ABBeginLoadingImageDataForClient (
    ABPersonRef person,
    ABImageClientCallback callback,
    void *refcon
);
```

#### **Parameters**

*person*

The person whose image data you wish to fetch.

*callback*

The function to call when the fetch is completed.

*info*

An untyped pointer to program-defined data that will be passed to the callback.

#### **Return Value**

A non-zero tag for tracking

#### **Discussion**

Use this function to begin an asynchronous fetch. Implement your callback function to receive the fetched image. Use the [ABCancelLoadingImageDataForTag](#) (page 7) function to cancel an asynchronous fetch.

#### **Availability**

Available in Mac OS X v10.2 and later.

#### **Declared In**

[ABAddressBookC.h](#)

## ABCancelLoadingImageDataForTag

Cancels an asynchronous fetch of an image for the given tag.

```
void ABCancelLoadingImageDataForTag (
    CFIndex tag
);
```

### Parameters

*tag*

Used to track an asynchronous fetch. This parameter should have been returned from a previous call to the [ABBeginLoadingImageDataForClient](#) (page 6) function.

### Discussion

Use the [ABBeginLoadingImageDataForClient](#) (page 6) function to begin an asynchronous fetch. Implement your callback function to receive the fetched image. Use this function to cancel an asynchronous fetch.

### Availability

Available in Mac OS X v10.2 and later.

### Declared In

ABAddressBookC.h

## ABPersonCopyImageData

Returns data that contains a picture of a person.

```
CFDataRef ABPersonCopyImageData (
    ABPersonRef person
);
```

### Parameters

*person*

The person whose image you wish to obtain.

### Return Value

The data representing an image of *person*. You are responsible for releasing this object.

### Availability

Available in Mac OS X v10.2 and later.

### Declared In

ABAddressBookC.h

## ABPersonCopyParentGroups

Returns an array of groups that a person belongs to.

```
CFArrayRef ABPersonCopyParentGroups (  
    ABPersonRef person  
);
```

**Parameters**

*person*

The person whose parent groups you wish to obtain.

**Return Value**

An array of ABGroup objects which *person* belongs to. You are responsible for releasing this object.

**Availability**

Available in Mac OS X v10.2 and later.

**Declared In**

ABAddressBookC.h

## ABPersonCopyVCardRepresentation

Returns the vCard representation of the person as a data object in vCard format.

```
CFDataRef ABPersonCopyVCardRepresentation (  
    ABPersonRef person  
);
```

**Parameters**

*person*

The person whose vCard representation you wish to obtain.

**Return Value**

The vCard representation of *person* as a data object in vCard format. You are responsible for releasing this object.

**Availability**

Available in Mac OS X v10.2 and later.

**Declared In**

ABAddressBookC.h

## ABPersonCreate

Returns a newly created person object.

```
ABPersonRef ABPersonCreate (  
    void  
);
```

**Return Value**

A newly created person object. You are responsible for releasing this object.

**Availability**

Available in Mac OS X v10.2 and later.

**Related Sample Code**

AddressBookCarbon



**Declared In**

ABAddressBookC.h

**ABPersonCreateSearchElement**

Returns a search element object that specifies a query for records of this type.

```
ABSearchElementRef ABPersonCreateSearchElement (
    CFStringRef property,
    CFStringRef label,
    CFStringRef key,
    CFTyperef value,
    ABSearchComparison comparison
);
```

**Parameters***property*

The name of the property to search on. It cannot be NULL. For a full list of the properties, see “[Person Properties](#)” (page 12) and [Common Properties in ABRecord](#).

*label*

The label name for a multi-value list. If *property* does not have multiple values, pass NULL. If *property* does have multiple values, pass NULL to search all the values.

*key*

The key name for a dictionary. If *property* is not a dictionary, pass NULL. If *property* is a dictionary, pass NULL to search all keys.

*value*

The value you are searching for. It cannot be NULL.

*comparison*

Specifies the type of comparison to perform, such as `kABEqual` or `kABPrefixMatchCaseInsensitive`. For a full list, see [ABSearchComparison](#).

**Return Value**

A search element object that specifies a query according to the above parameters. You are responsible for releasing this object.

**Discussion**

Use the `ABAddressBookCopyArrayOfMatchingRecords` function to actually perform the query. Also, see `ABSearchElement` for more functions that create compound queries.

**Availability**

Available in Mac OS X v10.2 and later.

**Related Sample Code**

`AddressBookCarbon`

**Declared In**

ABAddressBookC.h

**ABPersonCreateWithVCardRepresentation**

Returns a new `ABPerson` object initialized with the given data in vCard format.

```
ABPersonRef ABPersonCreateWithVCardRepresentation (
    CFDataRef vCard
);
```

**Parameters***vCard*

The data in vCard format to initialize the new ABPerson object with.

**Return Value**

A new ABPerson object initialized with the given data in vCard format. You are responsible for releasing this object.

**Availability**

Available in Mac OS X v10.2 and later.

**Declared In**

ABAddressBookC.h

**ABPersonSetImageData**

Sets the image for this person to the given data.

```
bool ABPersonSetImageData (
    ABPersonRef person,
    CFDataRef imageData
);
```

**Parameters***person*

The person whose image data you wish to set.

*imageData*

The image data to use as the image for *person*.

**Return Value**

true if successful, false otherwise.

**Availability**

Available in Mac OS X v10.2 and later.

**Declared In**

ABAddressBookC.h

## Callbacks

**ABImageClientCallback**

Prototype of a callback function used to notify an application when an asynchronous image fetch is complete.

```
typedef void (*ABImageClientCallback) (
    CFDataRef imageData,
    int tag,
    void *info
);
```

If you name your function `MyCallback`, you would declare it like this:

```
const void MyCallback (
    CFDataRef imageData,
    int tag,
    void *info
);
```

### Parameters

*imageData*

The image data in Quicktime compatible format that was loaded from an asynchronous fetch. NULL if the fetch failed.

*tag*

The tracking number for this fetch that should have been obtained from a previous call to the [ABBeginLoadingImageDataForClient](#) (page 6) function.

*info*

An untyped pointer to program-defined data that was passed to the [ABBeginLoadingImageDataForClient](#) (page 6) function.

### Discussion

Use the [ABBeginLoadingImageDataForClient](#) (page 6) function to begin an asynchronous fetch, and the [ABCancelLoadingImageDataForTag](#) (page 7) function to cancel an asynchronous fetch.

### Availability

Available in Mac OS X v10.2 and later.

### Declared In

ABAddressBookC.h

## Data Types

### ABPersonRef

A reference to an ABPerson object.

```
typedef struct __ABPerson *ABPersonRef;
```

### Availability

Available in Mac OS X v10.2 and later.

### Declared In

ABAddressBookC.h

## Constants

### Person Properties

CFPlugIn defines the following domain qualifier constants.

```

CFStringRef kABFirstNameProperty;
CFStringRef kABLastNameProperty;
CFStringRef kABFirstNamePhoneticProperty;
CFStringRef kABLastNamePhoneticProperty;
CFStringRef kABBirthdayProperty;
CFStringRef kABOrganizationProperty;
CFStringRef kABJobTitleProperty;
CFStringRef kABHomePageProperty;
CFStringRef kABURLsProperty;
CFStringRef kABCalendarURIsProperty;
CFStringRef kABEmailProperty;
CFStringRef kABAddressProperty;
CFStringRef kABPhoneProperty;
CFStringRef kABAIMInstantProperty;
CFStringRef kABJabberInstantProperty;
CFStringRef kABMSNInstantProperty;
CFStringRef kABYahooInstantProperty;
CFStringRef kABICQInstantProperty;
CFStringRef kABNoteProperty;
CFStringRef kABMiddleNameProperty;
CFStringRef kABMiddleNamePhoneticProperty;
CFStringRef kABTitleProperty;
CFStringRef kABSuffixProperty;
CFStringRef kABNicknameProperty;
CFStringRef kABMaidenNameProperty;
CFStringRef kABOtherDatesProperty;
CFStringRef kABRelatedNamesProperty;
CFStringRef kABDepartmentProperty;
CFStringRef kABPersonFlags;

```

#### Constants

```

kABFirstNameProperty
    First name (string).
    Available in Mac OS X v10.2 and later.
    Declared in ABGlobals.h.

kABLastNameProperty
    Last name (string).
    Available in Mac OS X v10.2 and later.
    Declared in ABGlobals.h.

kABFirstNamePhoneticProperty
    First name phonetic (string).
    Available in Mac OS X v10.2 and later.
    Declared in ABGlobals.h.

```

- `kABLastNamePhoneticProperty`  
Last name phonetic (string).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABBirthdayProperty`  
Birth date (date).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABOrganizationProperty`  
Company name (string)  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABJobTitleProperty`  
Job Title (string).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABHomePageProperty`  
Home Web page (string). *Deprecated in Mac OS X version 10.4.*  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABURLsProperty`  
Web pages (multi-string).  
Available in Mac OS X v10.4 and later.  
Declared in `ABGlobals.h`.
- `kABCalendarURIsProperty`  
Calendar URIs(multi-string).  
Available in Mac OS X v10.5 and later.  
Declared in `ABGlobals.h`.
- `kABEmailProperty`  
email(s) (multi-string).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABAddressProperty`  
Street Addresses (multi-dictionary).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.
- `kABPhoneProperty`  
Generic phone number (multi-string).  
Available in Mac OS X v10.2 and later.  
Declared in `ABGlobals.h`.

- `kABAIMInstantProperty`  
**AIM Instant Messaging (multi-string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABJabberInstantProperty`  
**Jabber Instant Messaging (multi-string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABMSNInstantProperty`  
**MSN Instant Messaging (multi-string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABYahooInstantProperty`  
**Yahoo Instant Messaging (multi-string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABICQInstantProperty`  
**ICQ Instant Messaging (multi-string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABNoteProperty`  
**Note (string).**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABMiddleNameProperty`  
**Middle name (string). Not supported in the AddressBook UI.**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABMiddleNamePhoneticProperty`  
**Middle name phonetic (string). Not supported in the AddressBook UI.**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABTitleProperty`  
**Title as in “Sir”, “Duke”, “General”, “Cardinal”, or “Lord” (string). Not supported in the AddressBook UI.**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**
- `kABSuffixProperty`  
**Suffix as in “Sr.”, “Jr.”, “III”, or “Esq.” (string). Not supported in the AddressBook UI.**  
**Available in Mac OS X v10.2 and later.**  
**Declared in `ABGlobals.h`.**

`kABNicknameProperty`

Nickname (string). Not supported in the AddressBook UI.

Available in Mac OS X v10.2 and later.

Declared in `ABGlobals.h`.

`kABMaidenNameProperty`

Maiden name (string). Not supported in the AddressBook UI.

Available in Mac OS X v10.2 and later.

Declared in `ABGlobals.h`.

`kABOtherDatesProperty`

Dates associated with a person (`ABMultiDateProperty` containing dates).

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABRelatedNamesProperty`

Names of people related to a person (`ABMultiStringProperty` containing names).

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABDepartmentProperty`

Department name (string).

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABPersonFlags`

Property that specifies the name ordering and user configuration of a record in the Address Book application.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

## Person Flags

The `ABPersonFlags` property is used to access the following settings:

```
#define kABShowAsPerson          000000
#define kABShowAsCompany        000001
#define kABShowAsMask           000007
#define kABDefaultNameOrdering  000000
#define kABFirstNameFirst       000040
#define kABLastNameFirst        000020
#define kABNameOrderingMask     000070
```

### Constants

`kABShowAsPerson`

Record is displayed as a person.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABShowAsCompany`

Record is displayed as a company.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABShowAsMask`

Used in conjunction with `kABShowAsPerson` and `kABShowAsCompany` to determine record configuration.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABDefaultNameOrdering`

Default name ordering (whether a person's first name or last name is displayed first) in the Address Book application.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABFirstNameFirst`

First name is displayed first in Address Book.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABLastNameFirst`

Last name is displayed first in Address Book.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

`kABNameOrderingMask`

Used in conjunction with `kABDefaultNameOrdering`, `kABFirstNameFirst`, and `kABLastNameFirst` to determine name ordering.

Available in Mac OS X v10.3 and later.

Declared in `ABGlobals.h`.

### Availability

Available in Mac OS X v10.3 and later.

## Email Labels

Labels used by the email property.

```
CFStringRef kABEmailWorkLabel;  
CFStringRef kABEmailHomeLabel;
```

### Constants

`kABEmailWorkLabel`

Work email.

Available in Mac OS X v10.2 and later.

Declared in `ABGlobals.h`.



kABEmailHomeLabel

Home email.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Address Labels

Labels used by the address property.

```
CFStringRef kABAddressWorkLabel;  
CFStringRef kABAddressHomeLabel;
```

### Constants

kABAddressWorkLabel

Work address.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABAddressHomeLabel

Home address.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Address Keys

Keys used by the address property.

```
CFStringRef kABAddressStreetKey;  
CFStringRef kABAddressCityKey;  
CFStringRef kABAddressStateKey;  
CFStringRef kABAddressZIPKey;  
CFStringRef kABAddressCountryKey;  
CFStringRef kABAddressCountryCodeKey;
```

### Constants

kABAddressStreetKey

Street (string).

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABAddressCityKey

City (string).

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABAddressStateKey

State (string).

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABAddressZIPKey  
**Zip (string).**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABAddressCountryKey  
**Country (string).**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABAddressCountryCodeKey  
**Country Code (string).**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

## Phone Labels

Labels used by the phone property.

```
CFStringRef kABPhoneWorkLabel;  
CFStringRef kABPhoneHomeLabel;  
CFStringRef kABPhoneMobileLabel;  
CFStringRef kABPhoneMainLabel;  
CFStringRef kABPhoneHomeFAXLabel;  
CFStringRef kABPhoneWorkFAXLabel;  
CFStringRef kABPhonePagerLabel;
```

### Constants

kABPhoneWorkLabel  
**Work phone.**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABPhoneHomeLabel  
**Home phone.**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABPhoneMobileLabel  
**Cell phone.**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABPhoneMainLabel  
**Main phone.**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABPhoneHomeFAXLabel  
**FAX number.**  
Available in Mac OS X v10.2 and later.  
Declared in ABGlobals.h.

kABPhoneWorkFAXLabel

FAX number.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABPhonePagerLabel

Pager number.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Web Page Labels

Labels used by the kABURLsProperty property.

```
CFStringRef kABHomePageLabel;
```

### Constants

kABHomePageLabel

Web page URL.

Available in Mac OS X v10.4 and later.

Declared in ABGlobals.h.

## Related Names Labels

Labels used by the related-names property.

```
CFStringRef kABMotherLabel;  
CFStringRef kABFatherLabel;  
CFStringRef kABParentLabel;  
CFStringRef kABSisterLabel;  
CFStringRef kABBrotherFAXLabel;  
CFStringRef kABChildLabel;  
CFStringRef kABFriendLabel;  
CFStringRef kABSpouseLabel;  
CFStringRef kABPartnerLabel;  
CFStringRef kABAssistantLabel;  
CFStringRef kABManagerLabel;
```

### Constants

kABMotherLabel

Mother.

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABFatherLabel

Father.

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABParentLabel

**Parent.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABSisterLabel

**Sister.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABBrotherLabel

**Brother.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABChildLabel

**Child.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABFriendLabel

**Friend.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABSpouseLabel

**Spouse.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABPartnerLabel

**Partner.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABAssistantLabel

**Assistant**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

kABManagerLabel

**Manager.**

Available in Mac OS X v10.3 and later.

Declared in ABGlobals.h.

**Availability**

Available in Mac OS X v10.3 and later.

## AIM Instant Labels

Labels used by the AIM instance property.

```
CFStringRef kABAIMWorkLabel;  
CFStringRef kABAIMHomeLabel;
```

#### Constants

kABAIMWorkLabel

Work AIM.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABAIMHomeLabel

Home AIM.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Jabber Instant Labels

Labels used by the Jabber instance property.

```
CFStringRef kABJabberWorkLabel;  
CFStringRef kABJabberHomeLabel;
```

#### Constants

kABJabberWorkLabel

Work Jabber.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABJabberHomeLabel

Home Jabber.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## MSN Instant Labels

Labels used by the MSN instance property.

```
CFStringRef kABMSNWorkLabel;  
CFStringRef kABMSNHomeLabel;
```

#### Constants

kABMSNWorkLabel

Work MSN.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABMSNHomeLabel

Home MSN.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Yahoo Instant Labels

Labels used by the Yahoo instance property.

```
CFStringRef kABYahooWorkLabel;  
CFStringRef kABYahooHomeLabel;
```

### Constants

```
kABYahooWorkLabel  
    Work Yahoo.  
    Available in Mac OS X v10.2 and later.  
    Declared in ABGlobals.h.
```

```
kABYahooHomeLabel  
    Home Yahoo.  
    Available in Mac OS X v10.2 and later.  
    Declared in ABGlobals.h.
```

## ICQ Instant Labels

Labels used by the ICQ instance property.

```
CFStringRef kABICQWorkLabel;  
CFStringRef kABICQHomeLabel;
```

### Constants

```
kABICQWorkLabel  
    Work ICQ.  
    Available in Mac OS X v10.2 and later.  
    Declared in ABGlobals.h.
```

```
kABICQHomeLabel  
    Home ICQ.  
    Available in Mac OS X v10.2 and later.  
    Declared in ABGlobals.h.
```

## Other Dates Labels

Labels for values contained in ABOtherDatesProperty multi-value properties.

```
kABAnniversaryLabel
```

### Constants

```
kABAnniversaryLabel  
    Anniversary date.  
    Available in Mac OS X v10.3 and later.  
    Declared in ABGlobals.h.
```

### Availability

Available in Mac OS X v10.3 and later.

## Generic Labels

Generic labels that may apply to any multi-value list property.

```
CFStringRef kABWorkLabel;  
CFStringRef kABHomeLabel;  
CFStringRef kABOtherLabel;
```

### Constants

kABWorkLabel

All kABXXXXWorkLabel constants are equivalent to this label.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABHomeLabel

All kABXXXXHomeLabel constants are equivalent to this label.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

kABOtherLabel

Can be used with any multi-value property.

Available in Mac OS X v10.2 and later.

Declared in ABGlobals.h.

## Record Type

Constants used to indicate a specific type of record.

```
CFStringRef kABPersonRecordType;
```

### Constants

kABPersonRecordType

Indicates record of an ABPerson object.

Available in Mac OS X v10.2 and later.

Declared in ABGlobalSC.h.





# Document Revision History

---

This table describes the changes to *ABPerson C Reference*.

Date	Notes
2006-07-26	Updated for Mac OS X v10.5.
2005-04-29	Updated for accuracy and consistency.
2004-10-07	Revised for Mac OS X v10.4.
2003-08-20	Revised for Mac OS X v10.3.
2003-03-01	First version of <i>ABPerson Reference for C</i> .

## REVISION HISTORY

### Document Revision History

# Index

---

## A

---

ABBeginLoadingImageDataForClient [function 6](#)  
ABCancelLoadingImageDataForTag [function 7](#)  
ABImageClientCallback [callback 10](#)  
ABPersonCopyImageData [function 7](#)  
ABPersonCopyParentGroups [function 7](#)  
ABPersonCopyVCardRepresentation [function 8](#)  
ABPersonCreate [function 8](#)  
ABPersonCreateSearchElement [function 9](#)  
ABPersonCreateWithVCardRepresentation [function 9](#)  
ABPersonRef [data type 11](#)  
ABPersonSetImageData [function 10](#)  
[Address Keys 17](#)  
[Address Labels 17](#)  
[AIM Instant Labels 20](#)

## E

---

[Email Labels 16](#)

## G

---

[Generic Labels 23](#)

## I

---

[ICQ Instant Labels 22](#)

## J

---

[Jabber Instant Labels 21](#)

## K

---

kABAddressCityKey [constant 17](#)  
kABAddressCountryCodeKey [constant 18](#)  
kABAddressCountryKey [constant 18](#)  
kABAddressHomeLabel [constant 17](#)  
kABAddressProperty [constant 13](#)  
kABAddressStateKey [constant 17](#)  
kABAddressStreetKey [constant 17](#)  
kABAddressWorkLabel [constant 17](#)  
kABAddressZIPKey [constant 18](#)  
kABAIMHomeLabel [constant 21](#)  
kABAIMInstantProperty [constant 14](#)  
kABAIMWorkLabel [constant 21](#)  
kABAnniversaryLabel [constant 22](#)  
kABAssistantLabel [constant 20](#)  
kABBirthdayProperty [constant 13](#)  
kABBrotherLabel [constant 20](#)  
kABCalendarURIsProperty [constant 13](#)  
kABChildLabel [constant 20](#)  
kABDefaultNameOrdering [constant 16](#)  
kABDepartmentProperty [constant 15](#)  
kABEmailHomeLabel [constant 17](#)  
kABEmailProperty [constant 13](#)  
kABEmailWorkLabel [constant 16](#)  
kABFatherLabel [constant 19](#)  
kABFirstNameFirst [constant 16](#)  
kABFirstNamePhoneticProperty [constant 12](#)  
kABFirstNameProperty [constant 12](#)  
kABFriendLabel [constant 20](#)  
kABHomeLabel [constant 23](#)  
kABHomePageLabel [constant 19](#)  
kABHomePageProperty [constant 13](#)  
kABICQHomeLabel [constant 22](#)  
kABICQInstantProperty [constant 14](#)  
kABICQWorkLabel [constant 22](#)  
kABJabberHomeLabel [constant 21](#)  
kABJabberInstantProperty [constant 14](#)  
kABJabberWorkLabel [constant 21](#)  
kABJobTitleProperty [constant 13](#)  
kABLastNameFirst [constant 16](#)  
kABLastNamePhoneticProperty [constant 13](#)

[kABLastNameProperty constant](#) 12  
[kABMaidenNameProperty constant](#) 15  
[kABManagerLabel constant](#) 20  
[kABMiddleNamePhoneticProperty constant](#) 14  
[kABMiddleNameProperty constant](#) 14  
[kABMotherLabel constant](#) 19  
[kABMSNHomeLabel constant](#) 21  
[kABMSNInstantProperty constant](#) 14  
[kABMSNWorkLabel constant](#) 21  
[kABNameOrderingMask constant](#) 16  
[kABNicknameProperty constant](#) 15  
[kABNoteProperty constant](#) 14  
[kABOrganizationProperty constant](#) 13  
[kABOtherDatesProperty constant](#) 15  
[kABOtherLabel constant](#) 23  
[kABParentLabel constant](#) 20  
[kABPartnerLabel constant](#) 20  
[kABPersonFlags constant](#) 15  
[kABPersonRecordType constant](#) 23  
[kABPhoneHomeFAXLabel constant](#) 18  
[kABPhoneHomeLabel constant](#) 18  
[kABPhoneMainLabel constant](#) 18  
[kABPhoneMobileLabel constant](#) 18  
[kABPhonePagerLabel constant](#) 19  
[kABPhoneProperty constant](#) 13  
[kABPhoneWorkFAXLabel constant](#) 19  
[kABPhoneWorkLabel constant](#) 18  
[kABRelatedNamesProperty constant](#) 15  
[kABShowAsCompany constant](#) 16  
[kABShowAsMask constant](#) 16  
[kABShowAsPerson constant](#) 15  
[kABSisterLabel constant](#) 20  
[kABSpouseLabel constant](#) 20  
[kABSuffixProperty constant](#) 14  
[kABTitleProperty constant](#) 14  
[kABURLsProperty constant](#) 13  
[kABWorkLabel constant](#) 23  
[kABYahooHomeLabel constant](#) 22  
[kABYahooInstantProperty constant](#) 14  
[kABYahooWorkLabel constant](#) 22

## M

---

[MSN Instant Labels](#) 21

## O

---

[Other Dates Labels](#) 22

## P

---

[Person Flags](#) 15  
[Person Properties](#) 12  
[Phone Labels](#) 18

## R

---

[Record Type](#) 23  
[Related Names Labels](#) 19

## W

---

[Web Page Labels](#) 19

## Y

---

[Yahoo Instant Labels](#) 22