

Product datasheet

Anti-ADRA1B antibody ab84405

★★★★★ 1 Abreviews 2 References 3 Images

Overview

Product name	Anti-ADRA1B antibody
Description	Rabbit polyclonal to ADRA1B
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human ADRA1B (C terminal). (NM_000679; P35368) (Peptide available as ab226906)
Positive control	Human fetal brain lysates; human heart tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Lyophilized: Reconstitute with 200ul distilled sterile water. Please note that if you receive this product in liquid form it has already been reconstituted as described and no further reconstitution is necessary.
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 1% BSA
Purity	Immunogen affinity purified
Purification notes	ab84405 is purified by a peptide affinity column.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab84405 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
WB		1/200 - 1/1000. Predicted molecular weight: 57 kDa. Can be blocked with Human ADRA1B peptide (ab226906) .
IHC-P	★★★★★ (1)	1/100 - 1/500.

Target

Function

This alpha-adrenergic receptor mediates its action by association with G proteins that activate a phosphatidylinositol-calcium second messenger system. Its effect is mediated by G(q) and G(11) proteins. Nuclear ADRA1A-ADRA1B heterooligomers regulate phenylephrine (PE)-stimulated ERK signaling in cardiac myocytes.

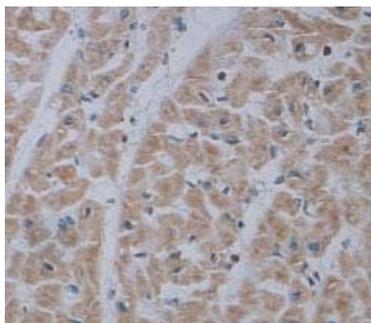
Sequence similarities

Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRA1B sub-subfamily.

Cellular localization

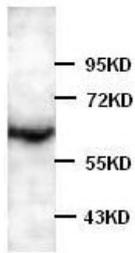
Nucleus membrane. Cell membrane. Location at the nuclear membrane facilitates heterooligomerization and regulates ERK-mediated signaling in cardiac myocytes. signaling in cardiac myocytes. Colocalizes with GNAQ, PLCB1 as well as LAP2 at the nuclear membrane of cardiac myocytes.

Images



ab84405, at a 1/100 dilution, staining ADRA1B in formalin fixed, paraffin embedded human heart tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADRA1B antibody (ab84405)

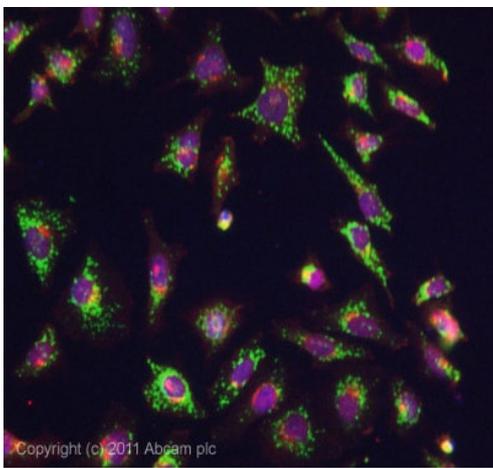


Western blot - Anti-ADRA1B antibody (ab84405)

Anti-ADRA1B antibody (ab84405) at 1/500 dilution + human fetal brain lysates

Predicted band size: 57 kDa

Observed band size: 57 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ADRA1B antibody (ab84405)

ICC/IF image of [ab84450](#) stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ([ab84450](#), 1µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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