

Product datasheet

Anti-alpha 1b Adrenergic Receptor antibody ab84405

★★★★☆ 1 Abreviews 1 References 3 Images

Overview

Product name	Anti-alpha 1b Adrenergic Receptor antibody
Description	Rabbit polyclonal to alpha 1b Adrenergic Receptor
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	A 15 amino acid peptide from the C terminal residues of human alpha 1b Adrenergic Receptor (NM_000679; P35368).
Positive control	Human fetal brain lysates; human heart tissue.

Properties

Form	Lyophilised: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 Constituents: 1% BSA
Purity	Immunogen affinity purified
Purification notes	ab84405 is purified by a peptide affinity column.
Clonality	Polyclonal
Isotype	IgG

Applications

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.

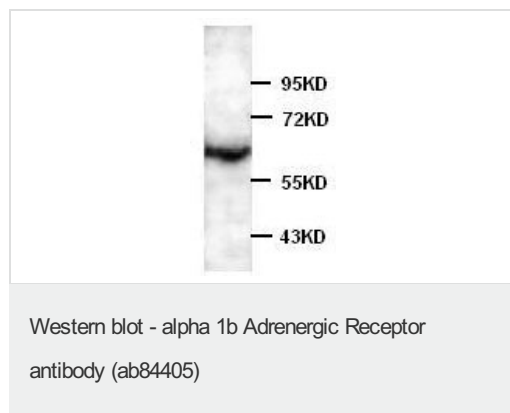
Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.

Application	Abreviews	Notes
WB		1/200 - 1/1000. Predicted molecular weight: 57 kDa. Can be blocked with Human alpha 1b Adrenergic Receptor peptide (ab226906) .
IHC-P	★★★★☆	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.

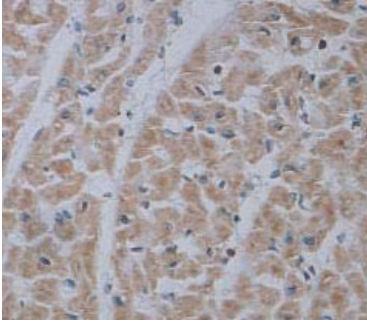
Images



Anti-alpha 1b Adrenergic Receptor antibody (ab84405) at 1/500 dilution + human fetal brain lysates

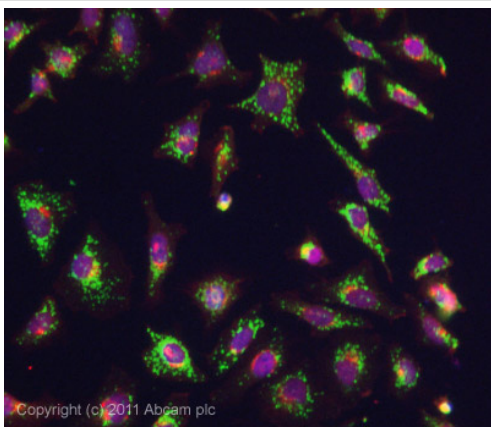
Predicted band size: 57 kDa

Observed band size: 57 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - alpha 1b Adrenergic Receptor antibody (ab84405)

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



Immunocytochemistry/ Immunofluorescence-alpha 1b Adrenergic Receptor 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](#), 1 µg/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.

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