10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Alpha-1B Adrenergic Receptor Antibody

Catalog # AP51942

Product Information

Application	WB
Primary Accession	P35368
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56836

Additional Information

Gene ID	147
Other Names	Alpha-1B adrenergic receptor; Alpha-1B adrenoreceptor; Alpha-1B adrenoceptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Alpha-1B Adrenergic Receptor. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

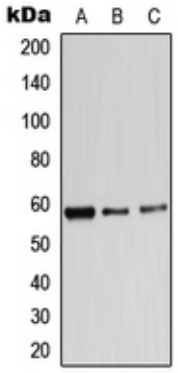
Name	ADRA1B (HGNC:278)
Function	Alpha-1 adrenergic receptors are G protein-coupled receptors for catecholamines that signal through the G(q) family of G proteins, including G(q) and G(11). Upon activation, they stimulate the phosphatidylinositol-calcium second messenger pathway, leading to calcium release from intracellular stores and activation of protein kinase C (By similarity). ADRA1B binds the catecholamine ligands norepinephrine and epinephrine (PubMed:7815325, PubMed:8183249). Can also couple to G(14) and G(16) proteins (By similarity). Nuclear ADRA1B forms heterooligomers with ADRA1A to regulate phenylephrine(PE)- stimulated ERK signaling in cardiac myocytes (PubMed:18802028, PubMed:22120526). At the plasma membrane, ADRA1B interacts with CAVIN4/MURC to regulates ERK activation in cardiomyocytes, contributing to the regulation of cardiac hypertrophy (PubMed:24567387).

Cellular Location	Nucleus membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasm. Membrane, caveola. Note=Location at the nuclear membrane facilitates heterooligomerization and regulates ERK-mediated signaling in cardiac myocytes. Colocalizes with GNAQ, PLCB1 as well as LAP2 at the nuclear membrane of cardiac myocytes (PubMed:18802028, PubMed:22120526). Colocalizes with CAVIN4 and CAV3 at the plasma membrane and partly within the cytoplasm in cardiomyocytes (PubMed:24567387).

References

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Forray C.,et al.Mol. Pharmacol. 45:703-708(1994).
Schwinn D.A.,et al.J. Pharmacol. Exp. Ther. 272:134-142(1995).
Wright C.D.,et al.Circ. Res. 103:992-1000(2008).
Wright C.D.,et al.Cell. Signal. 24:794-802(2012).

Images



Western blot analysis of Alpha-1B Adrenergic Receptor expression in A549 (A), HEK293T (B), PC12 (C) whole cell lysates. (Predicted band size: 56 kD; Observed band size: 57 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.