10320 Camino Santa Fe, Suite G
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ADRA1B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9404c

Specification

ADRA1B Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P35368
Other Accession	P15823, P97717, P43140, O02824, P97718, P35348, P18130
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rabbit, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**56836**
Antigen Region	**270-297**

ADRA1B Antibody (Center) - Additional Information

Gene ID 147

Other Names
Alpha-1B adrenergic receptor, Alpha-1B adrenoreceptor, Alpha-1B adrenoceptor, ADRA1B

Target/Specificity
This ADRA1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-297 amino acids from the Central region of human ADRA1B.

Dilution
IHC-P~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ADRA1B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ADRA1B Antibody (Center) - Protein Information

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Name ADRA1B

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.

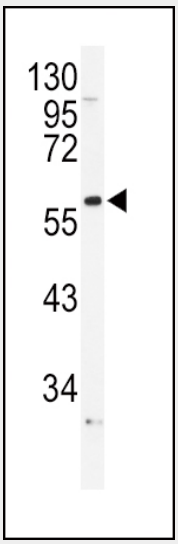
Cellular Location
Nucleus membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasm Membrane, caveola. Note=Location at the nuclear membrane facilitates heterooligomerization and regulates ERK- mediated signaling in cardiac myocytes. signaling in cardiac myocytes Colocalizes with GNAQ, PLCB1 as well as LAP2 at the nuclear membrane of cardiac myocytes

ADRA1B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADRA1B Antibody (Center) - Images



Western blot analysis of ADRA1B Antibody (Center) (Cat. #AP9404c) in NCI-H460 cell line lysates (35ug/lane). ADRA1B (arrow) was detected using the purified Pab.

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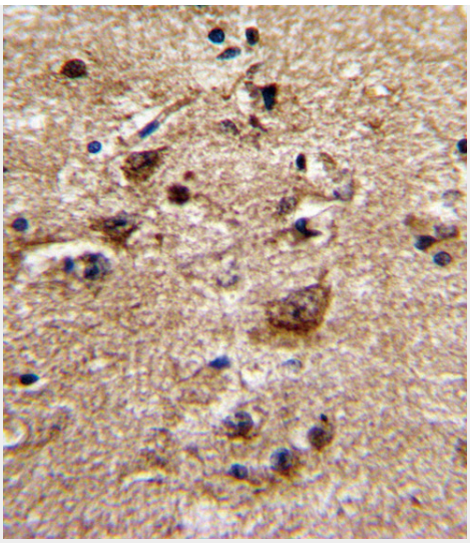

Formalin-fixed and paraffin-embedded human brain with ADRA1B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADRA1B Antibody (Center) - Background

Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This protein encodes alpha-1B-adrenergic receptor, which induces neoplastic transformation when transfected into NIH 3T3 fibroblasts and other cell lines. Thus, this normal cellular gene is identified as a protooncogene. This protein comprises 2 exons and a single large intron of at least 20 kb that interrupts the coding region.

ADRA1B Antibody (Center) - References

Mathias,R.A., J. Allergy Clin. Immunol. 125 (2), 336-346 (2010)
Jensen,B.C., Circ Heart Fail 2 (6), 654-663 (2009)
Gratacos,M., Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009)