

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



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

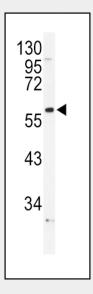
Nucleus membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasm Membrane, caveola. Note=Location at the nuclear membrane facilitates heterooligomerization and regulates ERK- mediated signaling in cardiac myocytes. signaling in cardiac myocytes Colocalizes with GNAQ,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

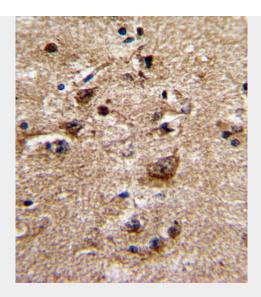
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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.





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)