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ADRA1A Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP17016b

Specification

ADRA1A Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P35348

ADRA1A Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 148

Other Names
Alpha-1A adrenergic receptor, Alpha-1A adrenoreceptor, Alpha-1A adrenoceptor, Alpha-1C adrenergic receptor, Alpha-adrenergic receptor 1c, ADRA1A, ADRA1C

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADRA1A Antibody (C-term) Blocking Peptide - Protein Information

Name ADRA1A

Synonyms ADRA1C

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. Colocalizes with GNAQ, PLCB1 as well as LAP2 at the nuclear membrane of cardiac myocytes

Tissue Location
Expressed in heart, brain, liver and prostate, but not in kidney, lung, adrenal, aorta and pituitary. Within the prostate, expressed in the apex, base, periurethral and lateral lobe. Isoform 4 is the most abundant isoform expressed in the prostate with high levels also detected in liver and heart.

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ADRA1A Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ADRA1A Antibody (C-term) Blocking Peptide - Images

ADRA1A Antibody (C-term) Blocking Peptide - Background

Alpha-1-adrenergic receptors (alpha-1-ARs) are members ofthe G protein-coupled receptor superfamily. They activate mitogenicresponses and regulate growth and proliferation of many cells.There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all ofwhich signal through the Gq/11 family of G-proteins and differentsubtypes show different patterns of activation. This gene encodesalpha-1A-adrenergic receptor. Alternative splicing of this genegenerates four transcript variants, which encode four differentisoforms with distinct C-termini but having similar ligand bindingproperties.

ADRA1A Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Gao, Y., et al. Ophthalmology (2010) In press :Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Sorrentino, S., et al. Auton Neurosci 155 (1-2), 98-103 (2010) :Herlyn, P., et al. Clin J Pain 26(3):175-181(2010)