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

ADRA1A Antibody (Cytoplasmic Domain)
Rabbit Polyclonal Antibody
Catalog # ALS10313

Specification

ADRA1A Antibody (Cytoplasmic Domain) - Product Information

Application	**IHC**
Primary Accession	P35348
Reactivity	**Human, Mouse, Rabbit, Hamster, Monkey, Pig, Sheep, Horse, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**51kDa KDa**

ADRA1A Antibody (Cytoplasmic Domain) - 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

Target/Specificity
Human ADRA1A. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
ADRA1A Antibody (Cytoplasmic Domain) is for research use only and not for use in diagnostic or therapeutic procedures.

ADRA1A Antibody (Cytoplasmic Domain) - 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.

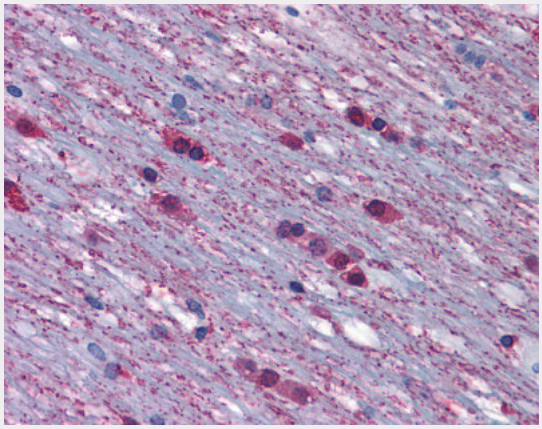
Volume
50 µl

ADRA1A Antibody (Cytoplasmic Domain) - 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

ADRA1A Antibody (Cytoplasmic Domain) - Images



Anti-ADRA1A antibody ALS10313 IHC of human brain.

ADRA1A Antibody (Cytoplasmic Domain) - Background

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.

ADRA1A Antibody (Cytoplasmic Domain) - References

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Forray C.,et al.Mol. Pharmacol. 45:703-708(1994).
Tseng-Crank J.,et al.Br. J. Pharmacol. 115:1475-1485(1995).

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Hirasawa A.,et al.FEBS Lett. 363:256-260(1995).