

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

### **Specification**

## **ADRA1A Antibody (Cytoplasmic Domain) - Product Information**

Application Primary Accession Reactivity

Host Clonality Calculated MW Dilution IHC-P, ICC <u>P35348</u> Human, Mouse, Rabbit, Hamster, Monkey, Pig, Sheep, Horse, Bovine, Dog Rabbit Polyclonal 51kDa KDa IHC-P~~N/A ICC~~N/A

# 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
- <u>Cell Culture</u>

ADRA1A Antibody (Cytoplasmic Domain) - Images



Anti-ADRA1A antibody ALS10313 IHC of human brain. ADRA1A Antibody (Cytoplasmic Domain) - Background

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### ADRA1A Antibody (Cytoplasmic Domain) - References

Hirasawa A., et al. Biochem. Biophys. Res. Commun. 195:902-909(1993). Weinberg D.H., et al. Biochem. Biophys. Res. Commun. 201:1296-1304(1994).



Forray C., et al.Mol. Pharmacol. 45:703-708(1994). Tseng-Crank J., et al.Br. J. Pharmacol. 115:1475-1485(1995). Hirasawa A., et al.FEBS Lett. 363:256-260(1995).