

**ADRA1A Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3921a****Specification**

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**ADRA1A Antibody (C-Term) - Product Information**

Application	WB, E
Primary Accession	<a href="#">P35348</a>
Other Accession	<a href="#">NP_000671.2</a> , <a href="#">148</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	51487

**ADRA1A Antibody (C-Term) - 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

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ADRA1A Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ADRA1A Antibody (C-Term) - 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**

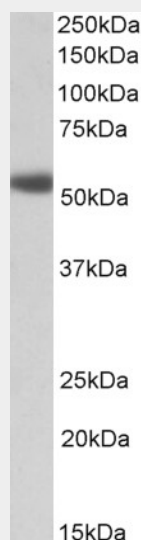
Expressed in heart, brain, liver and prostate, but not in kidney, lung, adrenal, aorta and pituitary. Within the prostate, expressed in the apex, base, periurethral and lateral lobe. Isoform 4 is the most abundant isoform expressed in the prostate with high levels also detected in liver and heart.

### **ADRA1A Antibody (C-Term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **ADRA1A Antibody (C-Term) - Images**



AF3921a (1 µg/ml) staining of Human Prostate lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **ADRA1A Antibody (C-Term) - Background**

This antibody is expected to recognize isoform 1 (NP\_000671.2) only.

**ADRA1A Antibody (C-Term) - References**

Alpha1-adrenoceptor signaling in the human prostate involves regulation of p38 mitogen-activated protein kinase. Strittmatter F, Gratzke C, Walther S, Göttinger J, Beckmann C, Roosen A, Schlenker B, Reich O, Stief CG, Hennenberg M. Urology. 2011 Oct;78(4):969.e7-13. PMID: 21982020