

**Anti-ADRA1A Picoband Antibody**  
**Catalog # ABO12438****Specification**

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**Anti-ADRA1A Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P35348</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Alpha-1A adrenergic receptor(ADRA1A) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-ADRA1A Picoband Antibody - 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

**Calculated MW**

51487 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Nucleus membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. 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 Specificity**

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.

**Protein Name**

Alpha-1A adrenergic receptor

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human ADRA1A (335-373aa KAFQNVLRIQCLCRKQSSKHALGYTLHPPSQAVEGQHKD), different from the related mouse and rat sequences by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-ADRA1A Picoband Antibody - 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**

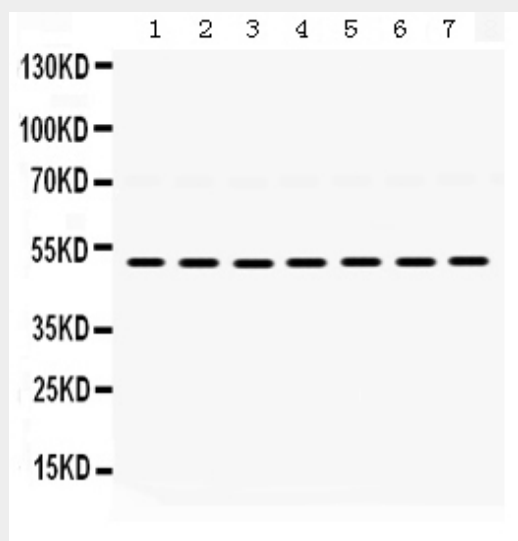
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**Anti-ADRA1A Picoband Antibody - Protocols**

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](#)

**Anti-ADRA1A Picoband Antibody - Images**



Anti- ADRA1A Picoband antibody, ABO12438, Western blotting All lanes: Anti ADRA1A (ABO12438) at 0.5ug/ml  
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug  
Lane 2: Rat Brain Tissue Lysate at 50ug  
Lane 3: Rat Liver Tissue Lysate at 50ug  
Lane 4: Mouse Liver Tissue Lysate at 50ug  
Lane 5: Mouse Lung Tissue Lysate at 50ug  
Lane 6: 22RV1 Whole Cell Lysate at 40ug  
Lane 7: SMMC Whole Cell Lysate at 40ug  
Predicted bind size: 51KD  
Observed bind size: 51KD

#### Anti-ADRA1A Picoband Antibody - Background

ADRA1A, also known as alpha-1A adrenergic receptor, is an alpha-1 adrenergic receptor, and also denotes the human gene encoding it. This gene is mapped to 8p21.2. Alpha-1-adrenergic receptors are G protein-coupled transmembrane receptors that mediate actions in the sympathetic nervous system through the binding of the catecholamines, epinephrine and norepinephrine. It has been found that ADRA1A transcripts in heart, brain, liver, and prostate. ADRA1A is the predominant ADRA1 subtype in liver and heart, and it can mediate the contraction of prostate smooth muscle.