

**Mouse Monoclonal Antibody to ADRB2**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2464a****Specification**

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**Mouse Monoclonal Antibody to ADRB2 - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">P07550</a>
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	46.5kDa KDa

**Description**

This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes.;

**Immunogen**

Purified recombinant fragment of human ADRB2 (AA: 302-413) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

**Mouse Monoclonal Antibody to ADRB2 - Additional Information**

**Gene ID** 154

**Other Names**

BAR; B2AR; ADRBR; ADRB2R; BETA2AR

**Dilution**

WB~~1:1000  
FC~~1:10~50  
E~~N/A

**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**

Mouse Monoclonal Antibody to ADRB2 is for research use only and not for use in diagnostic or therapeutic procedures.

## Mouse Monoclonal Antibody to ADRB2 - Protein Information

**Name** ADRB2

**Synonyms** ADRB2R, B2AR

### Function

Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30- fold greater affinity than it does norepinephrine.

### Cellular Location

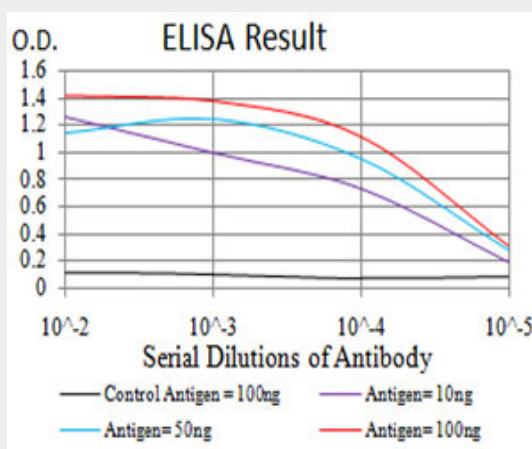
Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. Note=Colocalizes with VHL at the cell membrane (PubMed:19584355). Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325) Activated receptors are also detected within the Golgi apparatus (PubMed:27481942).

## Mouse Monoclonal Antibody to ADRB2 - Protocols

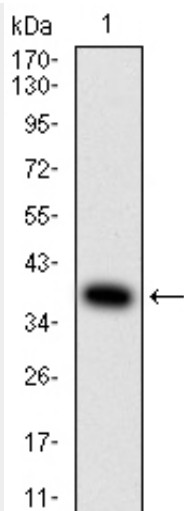
Provided below are standard protocols that you may find useful for product applications.

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

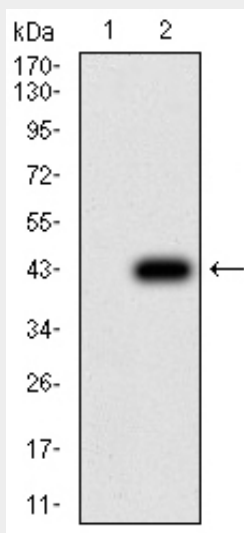
## Mouse Monoclonal Antibody to ADRB2 - Images



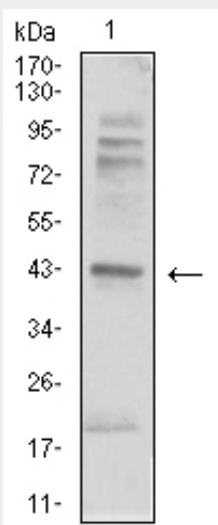
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



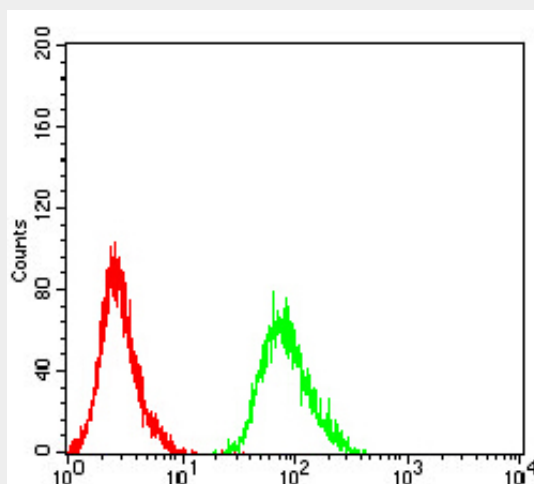
Western blot analysis using ADRB2 mAb against human ADRB2 (AA: 302-413) recombinant protein. (Expected MW is 38.5 kDa)



Western blot analysis using ADRB2 mAb against HEK293 (1) and ADRB2 (AA: 302-413)-hIgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using ADRB2 mouse mAb against C6 (1) cell lysate.



Flow cytometric analysis of MCF-7 cells using ADRB2 mouse mAb (green) and negative control (red).

#### **Mouse Monoclonal Antibody to ADRB2 - References**

1. World J Gastroenterol. 2015 Jun 21;21(23):7191-6. ; 2. Adv Exp Med Biol. 2015;842:247-61.;