

Mouse Monoclonal Antibody to ADRB2 Purified Mouse Monoclonal Antibody

Catalog # AO2465a

# Specification

## Mouse Monoclonal Antibody to ADRB2 - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW **Description**  WB, FC, E <u>P07550</u> Human Mouse Monoclonal Mouse IgG1 46.5kDa KDa

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.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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)-hlgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Hela 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.;