

Mouse Monoclonal Antibody to ADRB2

Purified Mouse Monoclonal Antibody Catalog # AO2464a

Specification

Mouse Monoclonal Antibody to ADRB2 - Product Information

Application WB, FC, E
Primary Accession P07550
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

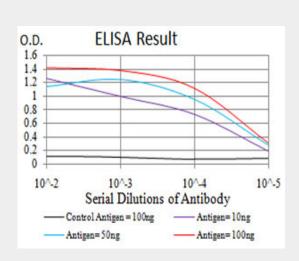
Cell membrane; Multi-pass membrane protein. Early endosome. Golgi apparatus. Note=Colocalizes with VHL at the cell membrane (PubMed:19584355). Activated receptors are internalized into endosomes prior to their degradation in lysosomes (PubMed:20559325) Activated receptors are also detected within the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

Mouse Monoclonal Antibody to ADRB2 - Protocols

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

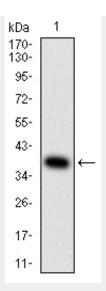
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Monoclonal Antibody to ADRB2 - Images

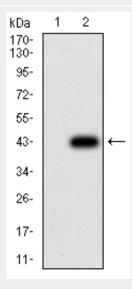


Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

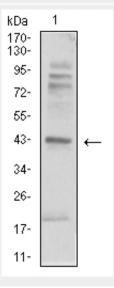




Western blot analysis using ADRB2 mAb against human ADRB2 (AA: 302-413) recombinant protein. (Expected MW is 38.5 kDa)

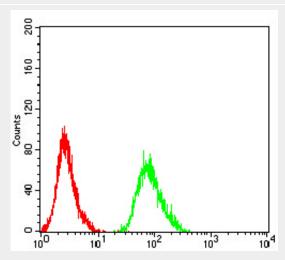


Western blot analysis using ADRB2 mAb against HEK293 (1) and ADRB2 (AA: 302-413)-hlgGFc transfected HEK293 (2) cell lysate.





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.;