ADRB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADRB2, Polyclonal Antibody
Full Product Name	ADRB2 Polyclonal Antibody Cy3 Conjugated
Product Gene Name	anti-ADRB2 antibody
Product Synonym Names	BAR; B2AR; ADRBR; ADRB2R; BETA2AR; Beta-2 adrenergic receptor; Beta-2 adrenoreceptor; Beta-2 adrenoceptor; ADRB2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Aqueous buffered solution containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Purity/Purification	Purified by Protein A
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
Molecular Weight	46,459 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (148206156..148208197). Location: 5q31-q32
OMIM	109690
3D Structure	ModBase 3D Structure for P07550
Conjugation	Cy3
Excitation Emission	512,550nm 570,615nm
Immunogen	KLH conjugated synthetic peptide aa 221-274 413 derived from human of human ADRB2
Product Categories/Family for anti-ADRB2 antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-ADRB2 antibody	Immunofluorescence (IF), Flow Cytometry (FC/FACS)
Application Notes for anti-ADRB2 antibody	FC/FACS:1:20-10 IF: 1:50-200
Related Product Information for anti-ADRB2 antibody	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 3-fold greater affinity than it does norepinephrine.
Other Notes	Small volumes of anti-ADRB2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADRB2 purchase	MBS9460107 is an antibody targeting ADRB2. Also known as ADRB2 Polyclonal Antibody Cy3 Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADRB2. It may not necessarily be applicable to this product.

NCBI GI #	4501969
NCBI GeneID	154
NCBI Accession #	NP_000015.1
UniProt Primary Accession #	P07550
UniProt Secondary Accession #	O14823; O14824; O14825; O14826; Q4JG18; Q53GA6; Q6GMT4; Q6P4D8; Q8NEQ9; B0LPE4; B2R7X2
UniProt Related Accession #	P07550
GenBank Nucleotide #	NM_000024.5
NCBI Official Full Name	beta-2 adrenergic receptor
NCBI Official Synonym Full Names	adrenoceptor beta 2, surface
NCBI Official Symbol	ADRB2
NCBI Official Synonym Symbols	BAR; B2AR; ADRBR; ADRB2R; BETA2AR
UniProt Protein Name	Beta-2 adrenergic receptor
UniProt Synonym Protein Names	Beta-2 adrenoreceptor
Protein Family	Beta-2 adrenergic receptor
UniProt Gene Name	ADRB2
UniProt Synonym Gene Names	ADRB2R; B2AR; Beta-2 adrenoceptor
UniProt Entry Name	ADRB2_HUMAN
NCBI Protein Information	beta-2 adrenergic receptor; beta-2 adrenoceptor; beta-2 adrenoreceptor; catecholamine receptor; adrenergic, beta-2-, receptor, surface
NCBI Summary for ADRB2	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. [provided by RefSeq, Jul 2008]

UniProt Comments for ADRB2	ADRB2: 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. Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB2 sub-subfamily. Protein type: Receptor, GPCR; GPCR, family 1; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 5q31-q32 Cellular Component: integral to plasma membrane; lysosome; apical plasma membrane; plasma membrane; nucleus; endosome; receptor complex Molecular Function: protein binding; protein homodimerization activity; potassium channel regulator activity; beta2-adrenergic receptor activity; norepinephrine binding; adenylate cyclase binding Biological Process: arrestin mediated desensitization of G-protein coupled receptor protein signaling pathway; receptor-mediated endocytosis; diet induced thermogenesis; negative regulation of multicellular organism growth; transmembrane receptor protein tyrosine kinase activation (dimerization); regulation of vasodilation; adenylate cyclase activation; regulation of sodium ion transport; positive regulation of bone mineralization; G-protein signaling, adenylate cyclase activating pathway; G-protein signaling, coupled to cAMP nucleotide second messenger; cell surface receptor linked signal transduction; positive regulation of MAPKKK cascade; positive regulation of protein ubiquitination; heat generation; negative regulation of smooth muscle contraction; brown fat cell differentiation; endosome to lysosome transport; positive regulation of transcription from RNA polymerase II promoter; response to cold; bone resorption; norepinephrine-epinephrine vasodilation involved in regulation of systemic arterial blood pressure Disease: Obesity; Asthma, Susceptibility To
Research Articles on ADRB2	**1.** genotypes or haplotypes at positions 16/27 do not influence bronchial hyperresponsiveness in methacholine-responsive patients with asthma
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