AR-alpha2A Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	AR-alpha2A, Polyclonal Antibody
Full Product Name	AR-alpha2A Polyclonal Antibody
Product Gene Name	anti-AR-alpha2A antibody
Clonality	Polyclonal
Molecular Weight	48,957 Da
OMIM	104210
3D Structure	ModBase 3D Structure for P08913
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-AR-alpha2A antibody	MBS8521339 is an antibody targeting AR-alpha2A. Also known as AR-alpha2A Polyclonal Antibody.
Other Notes	Small volumes of anti-AR-alpha2A 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AR-alpha2A. It may not necessarily be applicable to this product.

NCBI GI #	194353970
NCBI GeneID	150
NCBI Accession #	NP_000672.3
UniProt Primary Accession #	P08913
UniProt Secondary Accession #	Q2I8G2; Q2XN99; Q86TH8; Q9BZK1; B0LPF6
UniProt Related Accession #	P08913
GenBank Nucleotide #	NM_000681.3
NCBI Official Full Name	alpha-2A adrenergic receptor
NCBI Official Synonym Full Names	adrenoceptor alpha 2A
NCBI Official Symbol	ADRA2A
NCBI Official Synonym Symbols	ADRA2; ADRAR; ZNF32; ADRA2R; ALPHA2AAR
UniProt Protein Name	Alpha-2A adrenergic receptor
UniProt Synonym Protein Names	Alpha-2 adrenergic receptor subtype C10; Alpha-2A adrenoreceptor; Alpha-2A adrenoceptor; Alpha-2AAR
UniProt Gene Name	ADRA2A
UniProt Synonym Gene Names	ADRA2R; ADRAR; Alpha-2A adrenoceptor; Alpha-2AAR
NCBI Protein Information	alpha-2A adrenergic receptor

NCBI Summary for AR-alpha2A	Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Studies in mouse revealed that both the alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes alpha2A subtype and it contains no introns in either its coding or untranslated sequences. [provided by RefSeq, Jul 2008]
UniProt Comments for AR-alpha2A	Alpha-2 adrenergic receptors mediate the catecholamine-induced inhibition of adenylate cyclase through the action of G proteins. The rank order of potency for agonists of this receptor is oxymetazoline > clonidine > epinephrine > norepinephrine > phenylephrine > dopamine > p-synephrine > p-tyramine > serotonin = p-octopamine. For antagonists, the rank order is yohimbine > phentolamine = mianserine > chlorpromazine = spiperone = prazosin > propanolol > alprenolol = pindolol.
Research Articles on AR-alpha2A	**1.** Significant group*genotype interactions were found for 3 ADRA2A variants revealing steeper delay discounting (DD) in cocaine users (but not controls) carrying the G-allele of rs1800544, the T-allele of rs521674 and the C-allele of rs602618. High ADRA2A mRNA expression levels were significantly associated with a reduced tendency to choose smaller more immediate rewards in cocaine users.
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