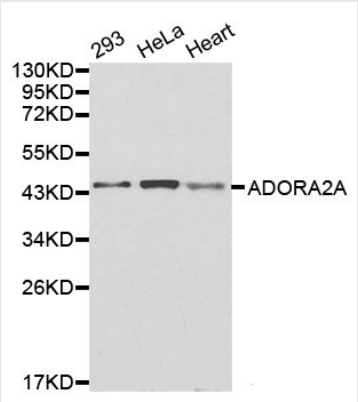
ADORA2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADORA2A, Polyclonal Antibody
Full Product Name	ADORA2A Antibody
Product Gene Name	anti-ADORA2A antibody
Product Synonym Names	ADORA2; RDC8; hA2Ar
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	44,707 Da
OMIM	102776
Immunogen	Recombinant protein of human ADORA2A
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-7502
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ADORA2A antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-ADORA2A antibody	This gene encodes a protein which is one of several receptor subtypes for adenosine. The activity of the encoded protein, a G-protein coupled receptor family member, is mediated by G proteins which activate adenylyl cyclase. The encoded protein is abundant in basal ganglia, vasculature and platelets and it is a major target of caffeine. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-ADORA2A 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 ADORA2A purchase	MBS2516541 is an antibody targeting ADORA2A. Also known as ADORA2A Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ADORA2A antibody
Western blot analysis of extracts of various cell lines, using ADORA2A antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADORA2A. It may not necessarily be applicable to this product.

NCBI GI #	511772972
NCBI GeneID	135
NCBI Accession #	NP_001265429.1
UniProt Secondary Accession #	B2R7E0
UniProt Related Accession #	P29274
GenBank Nucleotide #	NM_001278500.1
NCBI Official Full Name	adenosine receptor A2a
NCBI Official Synonym Full Names	adenosine A2a receptor
NCBI Official Symbol	ADORA2A
NCBI Official Synonym Symbols	A2aR; RDC8; ADORA2
UniProt Protein Name	Adenosine receptor A2a
Protein Family	Adenosine receptor
UniProt Gene Name	ADORA2A
UniProt Synonym Gene Names	ADORA2
UniProt Entry Name	AA2AR_HUMAN
NCBI Protein Information	adenosine receptor A2a; adenosine receptor subtype A2a
NCBI Summary for ADORA2A	This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein, an adenosine receptor of A2A subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many biological functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified, but it is thought to be non-coding. [provided by RefSeq, Jun 2013]

UniProt Comments for ADORA2A	ADORA2A: one of several receptor subtypes for adenosine. A G-protein coupled receptor. Activation is mediated by G proteins which activate adenylyl cyclase. Abundant in basal ganglia, vasculature and platelets and it is a major target of caffeine. Protein type: Membrane protein, integral; Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1 Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: identical protein binding; protein binding; enzyme binding; adenosine receptor activity, G-protein coupled Biological Process: central nervous system development; nerve growth factor receptor signaling pathway; apoptosis; blood circulation; adenylate cyclase activation; phagocytosis; G-protein signaling, coupled to cAMP nucleotide second messenger; cell-cell signaling; sensory perception; cellular defense response; cAMP biosynthetic process; blood coagulation; inflammatory response; adenosine receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on ADORA2A	**1.** novel approach consisting in the integration of molecular docking and membrane molecular dynamics simulations of the A(2A) adenosine receptor and ligands
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