ADORA1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	ADORA1, Blocking Peptide
Full Product Name	ADORA1 Peptide - C-terminal region
Product Gene Name	ADORA1 blocking peptide
Product Synonym Gene Name	RDC7
Sequence	SKDESKEPIV EVRTEEERTP NHDGGKHTEP NETTPLTEPE KGPVEAKPEC
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	ADORA1 peptide (MBS3239521) is used for blocking the activity of ADORA1 antibody (MBS3214584)
Molecular Weight	94kDa
OMIM	102775
Product Categories/Family for ADORA1 blocking peptide	Peptide
Applications Tested/Suitable for ADORA1 blocking peptide	Western Blot (WB)
Related Product Information for ADORA1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-ADORA1 Antibody, made Target Description: This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc.
Other Notes	Small volumes of ADORA1 blocking peptide 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 ADORA1 purchase	MBS3239521 is a blocking peptide targeting ADORA1. Also known as ADORA1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADORA1. It may not necessarily be applicable to this product.

NCBI GI #	4501947
NCBI GeneID	134
NCBI Accession #	NP_000665
UniProt Primary Accession #	P30542
UniProt Related Accession #	P30542
GenBank Nucleotide #	NM_000674
NCBI Official Full Name	adenosine receptor A1 isoform 1
NCBI Official Synonym Full Names	adenosine A1 receptor

NCBI Official Symbol	ADORA1
NCBI Official Synonym Symbols	RDC7
UniProt Protein Name	Adenosine receptor A1
Protein Family	Adenosine receptor
UniProt Gene Name	ADORA1
UniProt Entry Name	AA1R_HUMAN
NCBI Protein Information	adenosine receptor A1
NCBI Summary for ADORA1	The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and ethanol intoxication. Transcript variants with alternative splicing in the 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ADORA1	ADORA1: Receptor for adenosine. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. Belongs to the G-protein coupled receptor 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Apoptosis; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 1q32.1 Cellular Component: asymmetric synapse; presynaptic membrane; postsynaptic membrane; cell soma; endoplasmic reticulum; basolateral plasma membrane; integral to plasma membrane; postsynaptic density; presynaptic active zone; plasma membrane; dendritic spine; terminal button; axolemma Molecular Function: protein binding; G-protein-coupled receptor binding; protein heterodimerization activity; G-protein beta/gamma-subunit binding; purine nucleoside binding; adenosine receptor activity, G-protein coupled; phospholipase C activity; heterotrimeric G-protein binding Biological Process: negative regulation of circadian sleep/wake cycle, non-REM sleep; relaxation of vascular smooth muscle; activation of MAPKK activity; negative regulation of glutamate secretion; negative regulation of hormone secretion; positive regulation of potassium ion transport; regulation of synaptic plasticity; positive regulation of peptide secretion; neurological control of breathing; thermoregulation; signal transduction; positive regulation of protein amino acid dephosphorylation; negative regulation of cell proliferation; regulation of glomerular filtration; cell-cell signaling; positive regulation of nucleoside transport; positive regulation of epidermal growth factor receptor activity; negative regulation of lipid catabolic process; negative regulation of vasodilation; negative regulation of blood pressure; detection of temperature stimulus involved in sensory perception of pain; protein targeting to membrane; inflammatory response; negative regulation of synaptic transmission, GABAergic; adenosine receptor signaling pathway; nervous system development; negative regulation of neurotrophin production; negative regulation of synaptic transmission, glutamatergic; negative regulation of acute inflammatory response; negative regulation of leukocyte migration; phagocytosis; response to hypoxia; G-protein signaling, adenylate cyclase inhibiting pathway; regulation of sensory perception of pain; regulation of excitatory postsynaptic membrane potential; cognition; positive regulation of blood pressure; lipid catabolic process; negative regulation of apoptosis
Research Articles on ADORA1	**1.** 3.6 A structure of the human A1R in complex with adenosine and heterotrimeric Gi2 protein determined by Volta phase plate cryo-electron microscopy
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