PDE3A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDE3A, Polyclonal Antibody
Full Product Name	PDE3A antibody
Product Gene Name	anti-PDE3A antibody
Product Synonym Names	Polyclonal PDE3A; Anti-PDE3A; cGMP-inhibited phosphodiesterase 3A; cGMP-inhibited 3'; PDEA -3; cGIP2; cAMP Phosphodiesterase; PDEA 3; CGI-PDE A; PDE3A; 5'-cyclic phosphodiesterase A; MYOCARDIAL cGMP-inhibited; Cyclic GMP inhibited phos
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified by Immunoaffinity Chromatography and supplied in PBS with 0.1% NaN3.
Purity/Purification	PDE3A antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml (lot specific)
Specificity	Human
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -70 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	124,979 Da
OMIM	123805
3D Structure	ModBase 3D Structure for Q14432
Biohazard Information	This product contains sodium azide as preservative. Although the amount of sodium azide is very small appropriate care must be taken when handling.
Immunogen	PDE3A antibody was raised in rabbit using a synthetic peptide conjugated to KLH as the immunogen.
Product Categories/Family for anti-PDE3A antibody	Signal Transduction
Applications Tested/Suitable for anti-PDE3A antibody	Immunohistochemistry (IHC) Paraffin
Application Notes for anti-PDE3A antibody	IHC-P: 20 ug/ml
Related Product Information for anti-PDE3A antibody	MBS535539 is an antibody targeting PDE3A. Also known as PDE3A antibody. Reactive in Human. Host: Rabbit. Rabbit polyclonal PDE3A antibody
Other Notes	Small volumes of anti-PDE3A 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 PDE3A. It may not necessarily be applicable to this product.

NCBI GI #	70608155

NCBI GeneID	5139
NCBI Accession #	NP_000912
UniProt Primary Accession #	Q14432
UniProt Secondary Accession #	O60865; Q13348; Q17RD1
UniProt Related Accession #	Q14432
GenBank Nucleotide #	NM_000921.4
NCBI Official Full Name	cGMP-inhibited 3',5'-cyclic phosphodiesterase A isoform 1
NCBI Official Synonym Full Names	phosphodiesterase 3A, cGMP-inhibited
NCBI Official Symbol	PDE3A
NCBI Official Synonym Symbols	HTNB; CGI-PDE; CGI-PDE A; CGI-PDE-A
UniProt Protein Name	cGMP-inhibited 3',5'-cyclic phosphodiesterase A
UniProt Synonym Protein Names	Cyclic GMP-inhibited phosphodiesterase A; CGI-PDE A
Protein Family	cGMP-inhibited 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE3A
UniProt Synonym Gene Names	CGI-PDE A
UniProt Entry Name	PDE3A_HUMAN
NCBI Protein Information	cGMP-inhibited 3',5'-cyclic phosphodiesterase A
NCBI Summary for PDE3A	This gene encodes a member of the cGMP-inhibited cyclic nucleotide phosphodiesterase (cGI-PDE) family. cGI-PDE enzymes hydrolyze both cAMP and cGMP, and play critical roles in many cellular processes by regulating the amplitude and duration of intracellular cyclic nucleotide signals. The encoded protein mediates platelet aggregation and also plays important roles in cardiovascular function by regulating vascular smooth muscle contraction and relaxation. Inhibitors of the encoded protein may be effective in treating congestive heart failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for PDE3A	PDE3A: Cyclic nucleotide phosphodiesterase with a dual- specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes. Inhibited by cGMP. Belongs to the cyclic nucleotide phosphodiesterase family. PDE3 subfamily. Protein type: Membrane protein, integral; EC 3.1.4.17; Phosphodiesterase; Membrane protein, multi-pass; Nucleotide Metabolism - purine Chromosomal Location of Human Ortholog: 12p12 Cellular Component: integral to membrane; cytosol Molecular Function: 3',5'-cyclic-AMP phosphodiesterase activity; cGMP-inhibited cyclic-nucleotide phosphodiesterase activity; metal ion binding; cAMP binding Biological Process: response to drug; diterpenoid metabolic process; cAMP-mediated signaling; response to cAMP; cGMP-mediated signaling; cAMP catabolic process; negative regulation of vascular permeability; regulation of meiosis; lipid metabolic process; blood coagulation; oocyte maturation; positive regulation of vascular permeability; negative regulation of apoptosis Disease: Hypertension And Brachydactyly Syndrome
Research Articles on PDE3A	**1.** PDE3A is part of a SERCA2 signaling complex in cardiac myocytes.

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