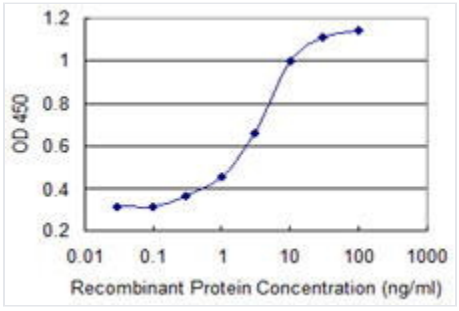
PDE3A Antibody – Mouse Monoclonal

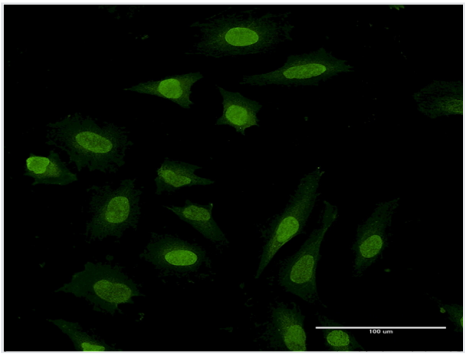
PRODUCT OVERVIEW

Product Name	PDE3A, Monoclonal Antibody
Full Product Name	PDE3A (Phosphodiesterase 3A, cGMP-inhibited, CGI-PDE) (FITC)
Product Gene Name	anti-PDE3A antibody
Product Synonym Names	Phosphodiesterase 3A; cGMP-inhibited; CGI-PDE
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2D7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes PDE3A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be r assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	124,979 Da
OMIM	123805. gene.
3D Structure	ModBase 3D Structure for Q14432
Immunogen	PDE3A (NP_000912, 533aa-640aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TPASSLVSKISAVQFPESADTTAKQSLGSHRALTYTQSAPDLSPQILTPPVICSSCGRPYSQGNPADEPLERSGVATRTPSRTDDTAQVTSDYETNNNSDS
Conjugate	FITC
Product Categories/Family for anti-PDE3A antibody	Antibodies; Enzymes; Phosphodiesterase
Applications Tested/Suitable for anti-PDE3A antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-PDE3A antibody	Applications are based on unconjugated antibody.

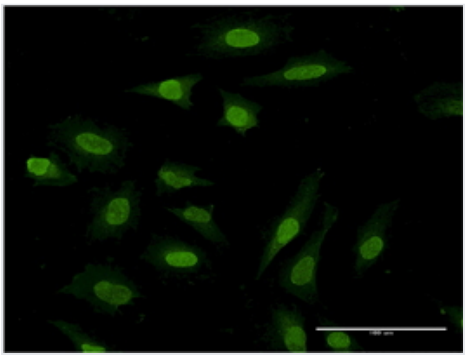
Related Product Information for anti-PDE3A antibody	MBS6177079 is an antibody targeting PDE3A. Also known as PDE3A (Phosphodiesterase 3A, cGMP-inhibited, CGI-PDE) (FITC). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant PDE3A.
Other Notes	Small volumes of anti-PDE3A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces 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 add ice fee may apply.



Testing Data of anti-PDE3A antibody
Detection limit for recombinant GST tagged PDE3A is 0.1 ng/ml as a capture antibody.



Immunofluorescence (IF) of anti-PDE3A antibody
Immunofluorescence of monoclonal antibody to PDE3A on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-PDE3A antibody
Immunofluorescence of monoclonal antibody to PDE3A on HeLa cell. [antibody concentration 10 ug/ml]

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
Protein Family	cGMP-inhibited 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE3A
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]
Research Articles on PDE3A	**1.** PDE3A is part of a SERCA2 signaling complex in cardiac myocytes.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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