



Anti-PDE3A (aa 533-640) polyclonal antibody (DPAB-DC2165)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PDE3A (NP_000912, 533 a.a. ~ 640 a.a) partial recombinant protein with GST tag. The sequence is TPASSLVSKISAVQFPESADTTAKQSLGSHRALTYTQSAPDLSQILTPPVICSSCGRPY SQGNPADEPLERSGVATRTPSRTDDAQVTSYETNNNSDSSDIVQNE
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PDE3A phosphodiesterase 3A, cGMP-inhibited [Homo sapiens (human)]
Official Symbol	PDE3A
Synonyms	PDE3A; phosphodiesterase 3A, cGMP-inhibited; CGI-PDE; CGI-PDE A; CGI-PDE-A; cGMP-inhibited 3,5-cyclic phosphodiesterase A; cyclic GMP-inhibited phosphodiesterase A; cAMP phosphodiesterase, myocardial cGMP-inhibited;
Entrez Gene ID	5139
Protein Refseq	NP_000912
UniProt ID	Q14432
Chromosome Location	12p12
Pathway	G alpha (s) signalling events; Hemostasis; Insulin signaling pathway; Morphine addiction
Function	3,5-cyclic-AMP phosphodiesterase activity; cAMP binding; cGMP-inhibited cyclic-nucleotide phosphodiesterase activity; metal ion binding