PDE4C Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDE4C, Polyclonal Antibody
Full Product Name	PDE4C, NT (PDE4C, DPDE1, cAMP-specific 3',5'-cyclic phosphodiesterase 4C, PDE21) (MaxLight 405)
Product Gene Name	anti-PDE4C antibody
Product Synonym Names	PDE4C; DPDE1; cAMP-specific 3',5'-cyclic phosphodiesterase 4C; PDE21
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	79,902 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (18318771..18359010, complement). Location: 19p13.11
OMIM	600128
3D Structure	ModBase 3D Structure for Q08493
Immunogen	PDE4C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 4-31 amino acids from the N-terminal region of human PDE4C.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PDE4C antibody	Antibodies; Enzymes; Phosphodiesterase
Applications Tested/Suitable for anti-PDE4C antibody	Western Blot (WB), FLISA
Application Notes for anti-PDE4C antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PDE4C antibody	Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light, and neurotransmitters. Cyclic nucleotide phosphodiesterases (PDEs) regulate the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. PDE4C is a class IV cAMP-specific PDE (summary by Milatovich et al., 1994 [PubMed 8009369]).
Product References and Citations for anti-PDE4C antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004). Sullivan, M., et al. Cell. Signal. 11(10):735-742(1999).

Other Notes	Small volumes of anti-PDE4C 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 PDE4C purchase	MBS6332149 is an antibody targeting PDE4C. Also known as PDE4C, NT (PDE4C, DPDE1, cAMP-specific 3',5'-cyclic phosphodiesterase 4C, PDE21) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDE4C. It may not necessarily be applicable to this product.

NCBI GI #	115529445
NCBI GeneID	5143
NCBI Accession #	NP_000914.2
UniProt Primary Accession #	Q08493
UniProt Secondary Accession #	Q9UN44; Q9UN45; Q9UN46; Q9UPJ6; B3KTC4
UniProt Related Accession #	Q08493
GenBank Nucleotide #	NM_000923.4
NCBI Official Full Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4C isoform PDE4C1
NCBI Official Synonym Full Names	phosphodiesterase 4C, cAMP-specific
NCBI Official Symbol	PDE4C
NCBI Official Synonym Symbols	DPDE1
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4C
UniProt Synonym Protein Names	DPDE1; PDE21
Protein Family	cAMP-specific 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE4C
UniProt Synonym Gene Names	DPDE1
UniProt Entry Name	PDE4C_HUMAN
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4C; PDE21; phosphodiesterase E1 dunce homolog; phosphodiesterase 4C, cAMP-specific (phosphodiesterase E1 dunce homolog, Drosophila)
NCBI Summary for PDE4C	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE4 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]
UniProt Comments for PDE4C	PDE4C: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. Belongs to the cyclic nucleotide phosphodiesterase family. PDE4 subfamily. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Phosphodiesterase; Nucleotide Metabolism - purine; EC 3.1.4.53 Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: extracellular space; cytosol Molecular Function: 3',5'-cyclic-AMP phosphodiesterase activity; metal ion binding Biological Process: cAMP catabolic process; signal transduction

Research Articles on PDE4C	**1.** PDE4A and PDE4C work in redundant fashion to mediate the loss of inhibitory PGE2 signaling in lung fibroblasts.
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