10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PDE1B Recombinant Rabbit mAb

Catalog # AP100083

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q01064
Other Accession	Q01064
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	61380
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cyclic nucleotide phosphodiesterase family. PDE1 subfamily.
Background Descriptions	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011],

Additional Information

Gene ID	5153
Other Names	HEL-S-79p; PDE1B1; PDES1B; Aop2; PDE1B_HUMAN; PDE1B; Cam-PDE 1B; 63 kDa Cam-PDE; 3.1.4.17; PDE1B_MOUSE; PDE1B_RAT; phosphodiesterase 1B; phosphodiesterase 1B, calmodulin-dependent; Calcium/calmodulin-dependent 3', 5'-cyclic nucleotide phosphodiesterase 1B (Cam-PDE 1B) (63 kDa Cam-PDE)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDE1B (HGNC:8775)
Synonyms	PDES1B

Function	Cyclic nucleotide phosphodiesterase with a dual specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:15260978, PubMed:8855339, PubMed:9419816). Has a preference for cGMP as a substrate (PubMed:9419816).
Cellular Location	Cytoplasm, cytosol.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.