

PDE1B Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16508b

Specification

PDE1B Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q01064
Other Accession	NP_000915.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	61380
Antigen Region	467-495

PDE1B Antibody (C-term) - Additional Information

Gene ID 5153

Other Names

Calcium/calmodulin-dependent 3', 5'-cyclic nucleotide phosphodiesterase 1B, Cam-PDE 1B, 63 kDa Cam-PDE, PDE1B, PDE1B1, PDES1B

Target/Specificity

This PDE1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 467-495 amino acids from the C-terminal region of human PDE1B.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PDE1B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PDE1B Antibody (C-term) - 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](#)).

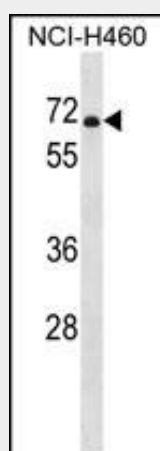
Cellular Location

Cytoplasm, cytosol.

PDE1B Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PDE1B Antibody (C-term) - Images

PDE1B Antibody (C-term) (Cat. #AP16508b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the PDE1B antibody detected the PDE1B protein (arrow).

PDE1B Antibody (C-term) - Background

Cyclic nucleotide phosphodiesterases (PDEs) catalyze hydrolysis of the cyclic nucleotides cAMP and cGMP to the corresponding nucleoside 5-prime-monophosphates. Mammalian PDEs have been classified into several families based on their biochemical properties. Members of the PDE1 family, such as PDE1B, are calmodulin (see MIM 114180)-dependent PDEs (CaM-PDEs) that are stimulated by a calcium-calmodulin complex (Repaske et al., 1992 [PubMed 1326532]).

PDE1B Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Vandeput, F., et al. J. Biol. Chem. 282(45):32749-32757(2007)
Bender, A.T., et al. Proc. Natl. Acad. Sci. U.S.A. 103(2):460-465(2006)
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