

PDE1B Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16508b**Specification**

PDE1B Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q01064](#)**PDE1B Antibody (C-term) Blocking Peptide - 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**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PDE1B Antibody (C-term) Blocking Peptide - 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:8855339, PubMed:9419816, PubMed:15260978). Has a preference for cGMP as a substrate (PubMed:9419816).

Cellular Location

Cytoplasm, cytosol.

PDE1B Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PDE1B Antibody (C-term) Blocking Peptide - Images

PDE1B Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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) Bender, A.T., et al. Proc. Natl. Acad. Sci. U.S.A. 102(2):497-502(2005)