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PDE4A Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17181a

Specification

PDE4A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P27815

PDE4A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5141

Other Names
cAMP-specific 3', 5'-cyclic phosphodiesterase 4A, DPDE2, PDE46, PDE4A, DPDE2

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.

PDE4A Antibody (N-term) Blocking Peptide - Protein Information

Name PDE4A

Synonyms DPDE2

Function
Hydrolyzes the second messenger 3',5'-cyclic AMP (cAMP), which is a key regulator of many important physiological processes.

Cellular Location
[Isoform 1]: Cytoplasm, perinuclear region [Isoform 3]: Cytoplasm, cytosol [Isoform 6]: Cytoplasm, perinuclear region

Tissue Location
[Isoform 1]: Expressed in lymphoid cell subsets including CD8-positive T cells and T-helper 2 cells. Expressed in dendritic cells. [Isoform 6]: Expressed at high levels in the heart and small intestine. It is also found in the brain, kidney, spleen, colon, salivary gland, ovary and peripheral blood lymphocytes

PDE4A Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PDE4A Antibody (N-term) Blocking Peptide - Images

PDE4A Antibody (N-term) Blocking Peptide - Background

Cyclic nucleotides are important second messengers thatregulate and mediate a number of cellular responses toextracellular signals, such as hormones, light, andneurotransmitters. Cyclic nucleotide phosphodiesterases (PDEs)regulate the cellular concentrations of cyclic nucleotides andthereby play a role in signal transduction. PDE4A is a class IVcAMP-specific PDE (summary by Milatovich et al., 1994 [PubMed8009369]).

PDE4A Antibody (N-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Selige, J., et al. J. Cell. Physiol. 223(2):317-326(2010)Bjorgo, E., et al. Mol. Cell. Biol. 30(7):1660-1672(2010)Singh, D., et al. Respir. Res. 11, 26 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)