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PDE8A Antibody (Center) (L572) Blocking Peptide

Synthetic peptide
Catalog # BP1463c

Specification

PDE8A Antibody (Center) (L572) Blocking Peptide - Product Information

Primary Accession O60658

PDE8A Antibody (Center) (L572) Blocking Peptide - Additional Information

Gene ID 5151

Other Names
High affinity cAMP-specific and IBMX-insensitive 3', 5'-cyclic phosphodiesterase 8A, PDE8A

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1463c was selected from the Center region of human PDE8A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PDE8A Antibody (Center) (L572) Blocking Peptide - Protein Information

Name PDE8A

Function
Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes (PubMed:18983167). May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development (PubMed:18983167). Binding to RAF1 reduces RAF1 'Ser-259' inhibitory- phosphorylation and stimulates RAF1-dependent EGF-activated ERK- signaling (PubMed:23509299). Protects against cell death induced by hydrogen peroxide and staurosporine (PubMed:23509299).

Tissue Location

Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon

PDE8A Antibody (Center) (L572) Blocking Peptide - Protocols

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

- Blocking Peptides

PDE8A Antibody (Center) (L572) Blocking Peptide - Images

PDE8A Antibody (Center) (L572) Blocking Peptide - Background

PDE8A plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase, which has a high affinity for cAMP, may be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development.

PDE8A Antibody (Center) (L572) Blocking Peptide - References

Wu,P., Proc. Natl. Acad. Sci. U.S.A. 101 (51), 17634-17639 (2004)Gamanuma,M., Cell. Signal. 15 (6), 565-574 (2003)