

# PDE8A Antibody (Center) (L572) Blocking Peptide

Synthetic peptide Catalog # BP1463c

### **Specification**

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

**Primary Accession** 

060658

## 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 <a href=/product/products/AP1463c>AP1463c</a> 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:<a href="http://www.uniprot.org/citations/18983167" target="\_blank">18983167</a>). May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development (PubMed:<a href="http://www.uniprot.org/citations/18983167" target="\_blank">18983167</a>). Binding to RAF1 reduces RAF1 'Ser-259' inhibitory- phosphorylation and stimulates RAF1-dependent EGF-activated ERK- signaling (PubMed:<a href="http://www.uniprot.org/citations/23509299" target="\_blank">23509299</a>). Protects against cell death induced by hydrogen peroxide and staurosporine (PubMed:<a href="http://www.uniprot.org/citations/23509299" target=" blank">23509299</a>).

### **Tissue Location**



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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)