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PDE8A Antibody (Center) (L572)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1463c

Specification

PDE8A Antibody (Center) (L572) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O60658
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**93304**
Antigen Region	**557-587**

PDE8A Antibody (Center) (L572) - Additional Information

Gene ID 5151

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

Target/Specificity
This PDE8A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 557-587 amino acids from the Central region of human PDE8A.

Dilution
WB~~1:1000
IHC-P~~1:50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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
PDE8A Antibody (Center) (L572) is for research use only and not for use in diagnostic or therapeutic procedures.

PDE8A Antibody (Center) (L572) - 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).

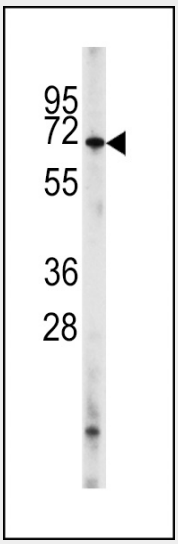
Tissue Location
Expressed in most tissues except thymus and peripheral blood leukocytes. Highest levels in testis, ovary, small intestine and colon

PDE8A Antibody (Center) (L572) - Protocols

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

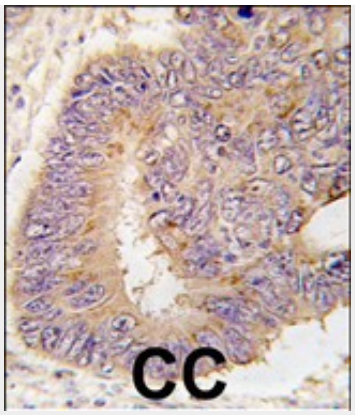
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDE8A Antibody (Center) (L572) - Images



Western blot analysis of PDE8A Antibody (Center) (L572) (Cat# AP1463c) in HL60 cell line lysates (35ug/lane). PDE8A (arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with PDE8A antibody (Center) (L572)(Cat.#AP1463c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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

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