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PDE8A Antibody (Center) (L572)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1463c

Product Information

Application	WB, IHC-P, E
Primary Accession	O60658
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB12684
Calculated MW	93304
Antigen Region	557-587

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~~1:100~500 E~~Use at an assay dependent concentration.
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.

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

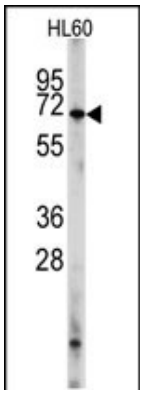
Background

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.

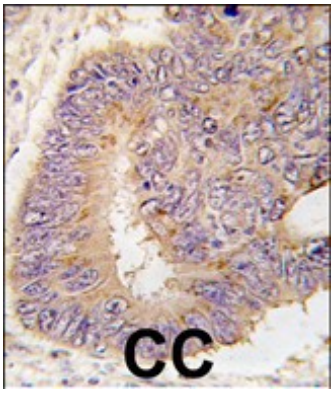
References

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

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.



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.