

PDE1A Rabbit pAb

Catalog # AP97974

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P54750
Other Accession	P54750
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	61252
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDE1A
Epitope Specificity	451-535/535
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the cyclic nucleotide phosphodiesterase family. PDE1 subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Cyclic nucleotide phosphodiesterases (PDEs) play a role in signal transduction by regulating intracellular cyclic nucleotide concentrations through hydrolysis of cAMP and/or cGMP to their respective nucleoside 5-prime monophosphates. Members of the PDE1 family, such as PDE1A, are Ca(2+)/calmodulin (see CALM1; MIM 114180)-dependent PDEs (CaM-PDEs) that are activated by calmodulin in the presence of Ca(2+) (Michibata et al., 2001 [PubMed 11342109]; Fidock et al., 2002 [PubMed 11747989]).[supplied by OMIM, Oct 2009]

Additional Information

Gene ID	5136
Other Names	PDE1; CAM-PDE 1A; CAM-PDE-1A; HCAM-1; HCAM1; HSPDE1A; 3'-RACEclone8phosphodiesterase1A; 3-RACEclone8phosphodiesterase1A; PDE1A_BOVIN; PDE1A; 61 kDa Cam-PDE; 3.1.4.17; PDE1A_HUMAN; PDE1A_MOUSE; phosphodiesterase 1A; phosphodiesterase 1A, calmodulin-dependent
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDE1A (HGNC:8774)
Function	Calcium/calmodulin-dependent cyclic nucleotide phosphodiesterase with a dual specificity for the second messengers cGMP and cAMP, which are key regulators of many important physiological processes. Has a higher efficiency with cGMP compared to cAMP.
Tissue Location	Several tissues, including brain, kidney, testes and heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.