



PDE1A Polyclonal Antibody

Catalog No	YP-Ab-05394
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PDE1A
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	PDE1A Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	61 kDa Cam-PDE;Cam-PDE 1A;Dual specificity calcium/calmodulin-dependent 3';5'-cyclic nucleotide phosphodiesterase 1A;EC:3.1.4.17;hCam 1;PDE1A; Calcium/calmodulin-dependent 3';5'-cyclic nucleotide phosphodiesterase 1A (Cam-PDE 1A) (EC 3.1.4.17) (61 kDa Cam-PDE) (hCam-1)
Observed Band	61 kDa
Calculated Molecular Weight	545 aa, 61 kDa
Cell Pathway	nucleus,cytosol,neuronal cell body,
Tissue Specificity	Several tissues, including brain, kidney, testes and heart.
Function	catalytic activity:Nucleoside 3',5'-cyclic phosphate + H(2)O = nucleoside 5'-phosphate.,enzyme regulation:Type I PDE are activated by the binding of calmodulin in the presence of Ca(2+).,function:Has a higher affinity for cGMP than for cAMP.,similarity:Belongs to the cyclic nucleotide phosphodiesterase family.,subunit:Homodimer.,tissue specificity:Several tissues, including brain, kidney, testes and heart.,
Background	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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images