PDE1A Monoclonal Antibody

Catalog No	YP-mAb-05394
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	PDE1A
Protein Name	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A (Cam-PDE 1A) (EC 3.1.4.17) (61 kDa Cam-PDE) (hCam-1)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	PDE1A Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	58kD
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.

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