

## PDE1A Polyclonal Antibody

Catalog number: 12442-2-AP

Size: 44 µg/150 µl

Source: Rabbit

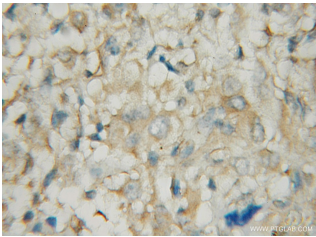
Isotype: IgG

Synonyms:

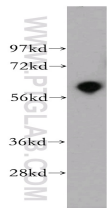
PDE1A; 61 kDa Cam PDE, Cam

PDE 1A, hCam 1, HCAM1,

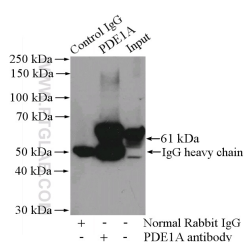
HSPDE1A, PDE1A



Immunohistochemical of paraffin-embedded human gliomas using 12442-2-AP (PDE1A antibody) at dilution of 1:50 (under 10x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 12442-2-AP (PDE1A antibody) at dilution of 1:500



IP Result of anti-PDE1A (IP:12442-2-AP, 4µg; Detection:12442-2-AP 1:500) with mouse brain tissue lysate 4000µg.

### Background

PDE1A (Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A) is also named as Cam-PDE 1A, 61 kDa Cam-PDE, hCam-1 and belongs to the cyclic nucleotide phosphodiesterase (PDEs) family. The 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. This protein has 9 isoforms produced by alternative splicing with the molecular weight from 57 kDa to 63 kDa. There is a report showing the major 67-kD PDE1A isoform identified in human sperm associates tightly with calmodulin and is not activated by Ca(2+)/calmodulin (PMID:12135876).

### Applications

Tested applications:	ELISA, WB, IHC, IP
Species specificity:	Human, Mouse; other species not tested.
Calculated PDE1A MW:	545aa, 61 kDa
Observed PDE1A MW:	61 kDa
Positive WB detected in:	Human brain tissue, mouse brain tissue
Positive IP detected in:	Mouse brain tissue
Positive IHC detected in:	Human gliomas tissue, mouse brain tissue
Recommended dilution:	WB: 1:500-1:5000
	IP: 1:200-1:2000
	IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag3157
GenBank accession number:	BC022480
Gene ID (NCBI):	5136
Full name:	Phosphodiesterase 1A, calmodulin-dependent

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.