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PDE2A Rabbit pAb

Catalog # AP97975

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00408
Other Accession	O00408
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	105717
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PDE2A
Epitope Specificity	851-941/941
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. PDE2 subfamily. Contains 2 GAF domains.
SUBUNIT	Homodimer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Additional Information

Gene ID	5138
Other Names	CGS-PDE; IDDPADS; PDE2A1; PED2A4; cGSPDE; Pde2; Pde2a2; PDE2A_HUMAN; PDE2A; Cyclic GMP-stimulated phosphodiesterase (CGS-PDE | cGSPDE); 3.1.4.17; PDE2A_MOUSE; PDE2A_RAT; phosphodiesterase 2A; phosphodiesterase 2A, cGMP-stimulated
Dilution	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	PDE2A (HGNC:8777)
Function	cGMP-activated cyclic nucleotide phosphodiesterase with a dual-specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes (PubMed:15938621,

	PubMed:29392776, PubMed:9210593). Has a higher efficiency with cGMP compared to cAMP (PubMed:15938621). Plays a role in cell growth and migration (PubMed:24705027).
Cellular Location	[Isoform PDE2A3]: Cell membrane; Lipid- anchor [Isoform PDE2A1]: Cytoplasm
Tissue Location	Widely expressed (PubMed:29392776, PubMed:9210593). Expressed in brain, with high expression observed in the corpus striatum (PubMed:29392776). Also expressed in heart, placenta, lung, skeletal muscle, kidney and pancreas (PubMed:29392776, PubMed:9210593)

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