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PDE2A Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22001b

Product Information

Application	WB, E
Primary Accession	O00408
Other Accession	P14099, Q922S4, Q01062
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54686
Calculated MW	105717

Additional Information

Gene ID	5138
Other Names	cGMP-dependent 3', 5'-cyclic phosphodiesterase, 3.1.4.17, Cyclic GMP-stimulated phosphodiesterase, CGS-PDE, cGSPDE, PDE2A
Target/Specificity	This PDE2A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 780-810 amino acids of mouse PDE2A.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PDE2A Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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)

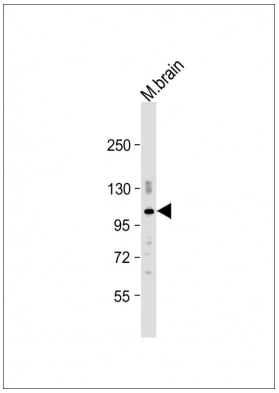
Background

Cyclic nucleotide phosphodiesterase with a dual- specificity for the second messengers cAMP and cGMP, which are key regulators of many important physiological processes.

References

Rosman G.J.,et al.Gene 191:89-95(1997).
Bugaj-Gaweda B.,et al.Submitted (DEC-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).
Russwurm C.,et al.J. Biol. Chem. 284:25782-25790(2009).

Images



Anti-PDE2A Antibody (C-Term) at 1:2000 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 106 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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