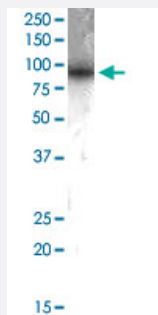


PDE4B polyclonal antibody

Catalog # PAB6965

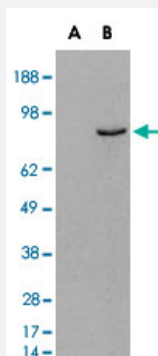
Size 100 ug

Applications



Western Blot (Tissue lysate)

PDE4B polyclonal antibody (Cat # PAB6965) (0.5 ug/mL) staining of mouse brain Lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence



Western Blot (Transfected lysate)

HEK293 overexpressing human PDE4B and probed with PDE4B polyclonal antibody (Cat # PAB6965) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of PDE4B.
Immunogen	A synthetic peptide corresponding to human PDE4B.
Sequence	C-DIDATEDKSPVDT
Host	Goat
Theoretical MW (kDa)	83.3, 64.4, 82.1
Reactivity	Mouse

Specificity	This antibody is expected to recognize all reported isoforms (NP_002591.2, NP_0010.32418.1, NP_0010.32416.1 and NP_0010.32417.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:8000) Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

PDE4B polyclonal antibody (Cat # PAB6965) (0.5 ug/mL) staining of mouse brain Lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence

- Western Blot (Transfected lysate)

HEK293 overexpressing human PDE4B and probed with PDE4B polyclonal antibody (Cat # PAB6965) (mock transfection in first lane), tested by Origene.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PDE4B

Entrez GeneID	5142
Protein Accession#	NP_002591.2;NP_0010.32418.1;NP_0010.32416.1;NP_0010.32417.1
Gene Name	PDE4B
Gene Alias	DKFZp686F2182, DPDE4, MGC126529, PDE4B5, PDE1VB

Gene Description	phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)
Omim ID	600127
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the type IV, cyclic AMP (cAMP)-specific, cyclic nucleotide phosphodiesterase (PDE) family. Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light, and neurotransmitters. The cyclic nucleotide phosphodiesterases (PDEs) regulate the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. This gene encodes a protein that specifically hydrolyzes cAMP. Altered activity of this protein has been associated with schizophrenia and bipolar affective disorder. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]
Other Designations	OTTHUMP00000010652 OTTHUMP00000010656 OTTHUMP00000046896 cAMP-specific 3',5'-cyclic phosphodiesterase 4B cAMP-specific phosphodiesterase-4 B isoform dunce-like phosphodiesterase E4 phosphodiesterase 4B, cAMP-specific phosphodiesterase 4B, cAMP-specific (d

Publication Reference

- [Genome Wide Mapping Reveals PDE4B as an IL-2 Induced STAT5 Target Gene in Activated Human PBMCs and Lymphoid Cancer Cells.](#)

Nagy ZS, Ross JA, Rodriguez G, Balint BL, Szeles L, Nagy L, Kirken RA.

PLoS One 2013 Feb; 8(2):e57326.

Application: WB, Human, Lymphoid cells

- [DISC1 and PDE4B are interacting genetic factors in schizophrenia that regulate cAMP signaling.](#)

Millar JK, Pickard BS, Mackie S, James R, Christie S, Buchanan SR, Malloy MP, Chubb JE, Huston E, Baillie GS, Thomson PA, Hill EV, Brandon NJ, Rain JC, Camargo LM, Whiting PJ, Houslay MD, Blackwood DH, Muir WJ, Porteous DJ.

Science 2005 Nov; 310(5751):1187.

Application: IF, WB-Ce, Human, Lymphoblastoid, SH-SY5Y, Hippocampal primary cells

Pathway

- [Purine metabolism](#)

Disease

- [Bipolar Disorder](#)

- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Dyskinesia](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Neuropsychological Tests](#)
- [Postmortem Changes](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)