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Product datasheet for CF503325

PDE1B Mouse Monoclonal Antibody [Clone ID: OTI6B9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI6B9
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PDE1B(NP_000915) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	61.2 kDa
Gene Name:	phosphodiesterase 1B
Database Link:	NP_000915 Entrez Gene 18574 MouseEntrez Gene 29691 RatEntrez Gene 100856025 DogEntrez Gene 705920 MonkeyEntrez Gene 5153 Human Q01064

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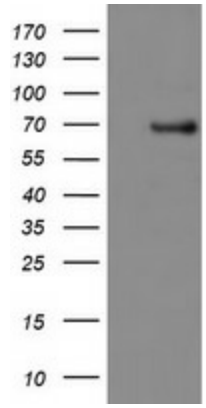
Background: Cyclic nucleotide phosphodiesterases (PDEs) catalyze hydrolysis of the cyclic nucleotides cAMP and cGMP to the corresponding nucleoside 5-prime-monophosphates. Mammalian PDEs have been classified into several families based on their biochemical properties. Members of the PDE1 family, such as PDE1B, are calmodulin (see MIM 114180)-dependent PDEs (CaM-PDEs) that are stimulated by a calcium-calmodulin complex (Repaske et al., 1992 [PubMed 1326532]). [supplied by OMIM]

Synonyms: PDE1B1; PDES1B

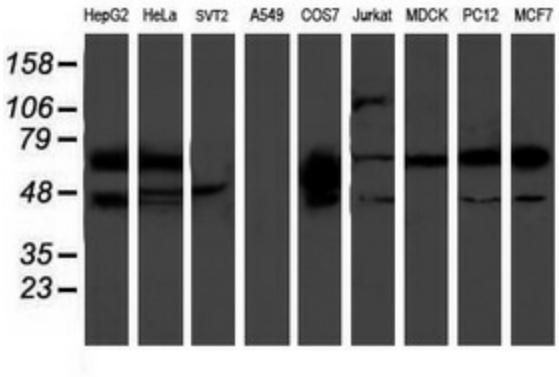
Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDE1B ([RC206588], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDE1B. Positive lysates [LY400337] (100ug) and [LC400337] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PDE1B monoclonal antibody.

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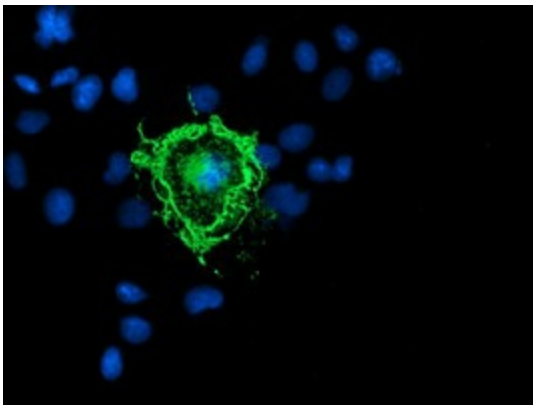
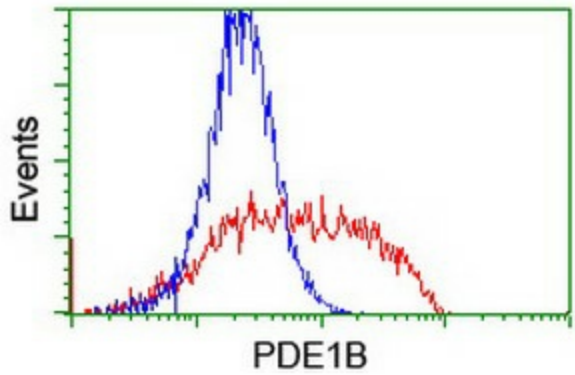


Anti-PDE1B mouse monoclonal antibody ([TA503325]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PDE1B ([RC206588]).



HEK293T cells transfected with either [RC206588] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDE1B antibody ([TA503325]), and then analyzed by flow cytometry.

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