

Product datasheet for **CF503336**

PDE1B Mouse Monoclonal Antibody [Clone ID: OT11D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT11D6
Applications:	IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100
Reactivity:	Human, Mouse, Rat
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 Mouse Entrez Gene 29691 Rat Entrez Gene 5153 Human Q01064



[View online »](#)

Background:

The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2011]

Synonyms:

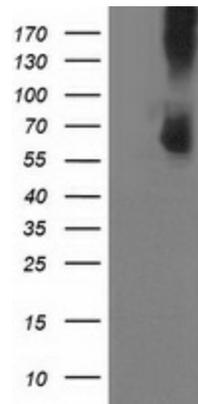
PDE1B1; PDES1B

Protein Families:

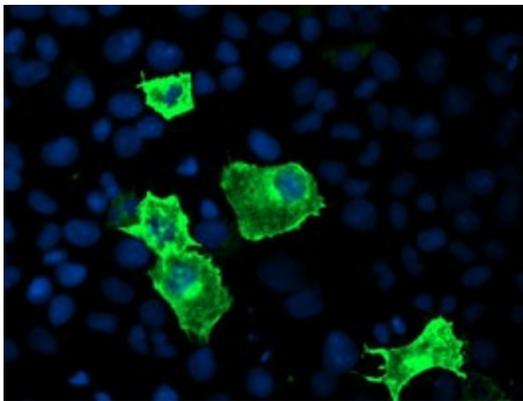
Druggable Genome

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.



Anti-PDE1B mouse monoclonal antibody ([TA503336]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PDE1B ([RC206588]).