

## Product datasheet for **TA503446AM**

### **PDE4 (PDE4B) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2B10]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI2B10
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PDE4B(NP_002591) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	83.2 kDa
Gene Name:	phosphodiesterase 4B
Database Link:	<a href="#">NP_002591</a> <a href="#">Entrez Gene 18578 Mouse</a> <a href="#">Entrez Gene 24626 Rat</a> <a href="#">Entrez Gene 5142 Human</a> <a href="#">Q07343</a>



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**Background:**

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]

**Synonyms:**

DPDE4; PDE4B5; PDEIVB

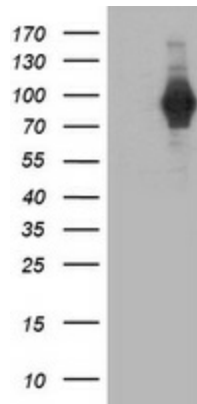
**Protein Families:**

Druggable Genome

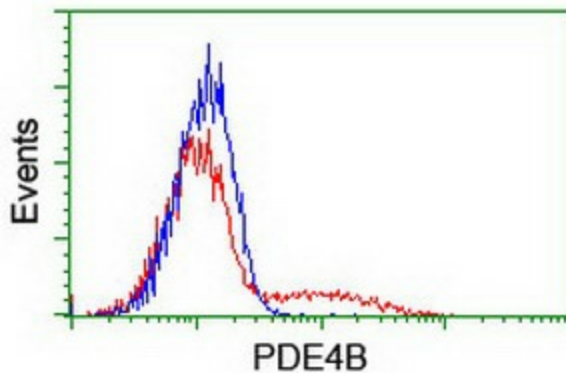
**Protein Pathways:**

Progesterone-mediated oocyte maturation, Purine metabolism

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDE4B ([RC211956], 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-PDE4B. Positive lysates [LY400919] (100ug) and [LC400919] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC211956] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDE4B antibody ([TA503446]), and then analyzed by flow cytometry.