

## Product datasheet for **TA501202**

### **PDE4A Mouse Monoclonal Antibody [Clone ID: OTI6B6]**

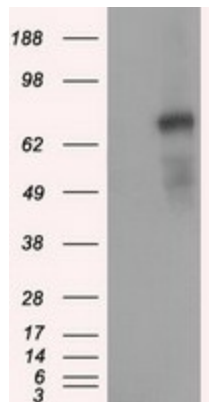
#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI6B6
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:4000, IHC 1:50, IF 1:100, Flow 1:100
<b>Reactivity:</b>	Human, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human PDE4A (NP_006193) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	72 kDa
<b>Gene Name:</b>	phosphodiesterase 4A
<b>Database Link:</b>	<a href="#">NP_006193</a> <a href="#">Entrez Gene 5141 Human</a> <a href="#">P27815</a>
<b>Background:</b>	Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light, and neurotransmitters. Cyclic nucleotide phosphodiesterases (PDEs) regulate the cellular concentrations of cyclic nucleotides and thereby play a role in signal transduction. PDE4A is a class IV cAMP-specific PDE

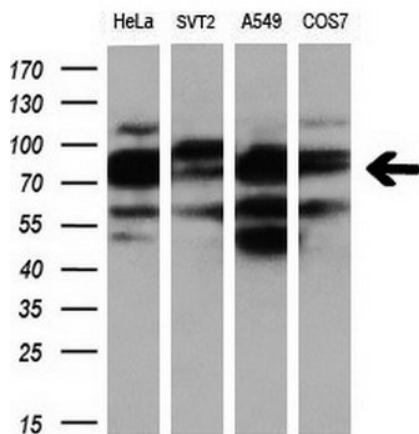


[View online »](#)

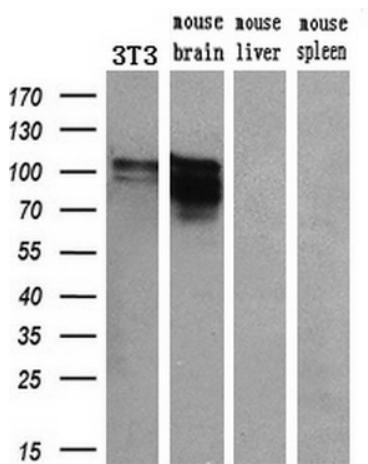
**Synonyms:** DPDE2; PDE4; PDE46  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**Product images:**


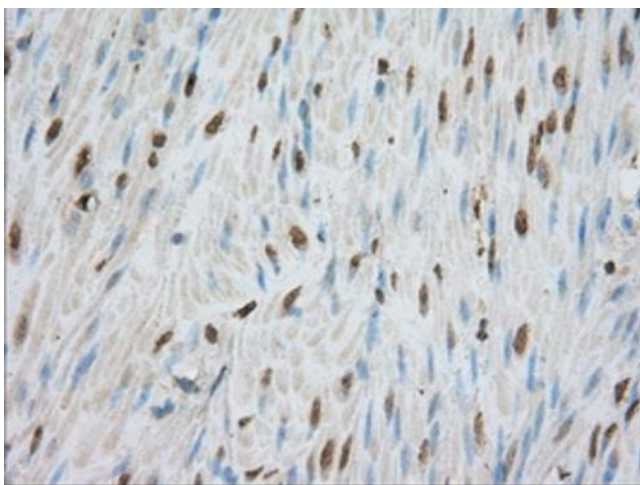
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDE4A ([RC207765], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDE4A.



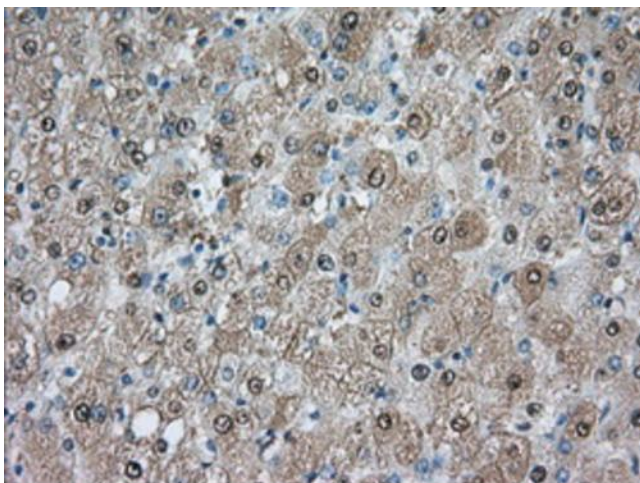
Western blot analysis of extracts (10ug) from 4 different cell lines by using anti-PDE4A monoclonal antibody at 1:200 dilution.



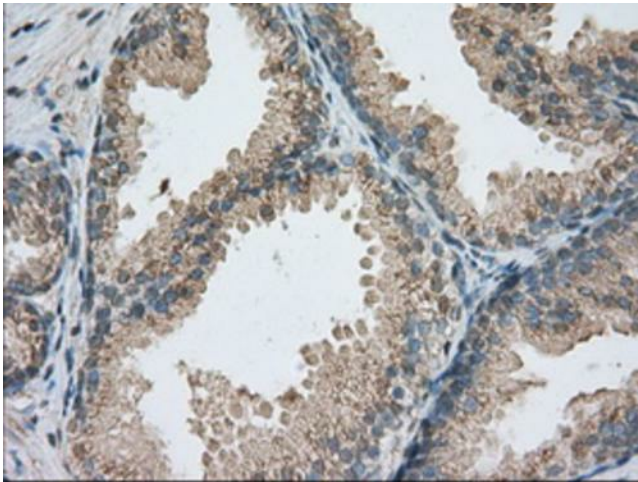
Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-PDE4A monoclonal antibody (1:200).



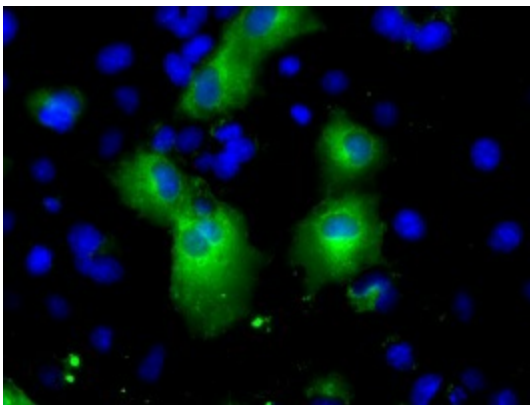
Immunohistochemical staining of paraffin-embedded colon tissue within the normal limits using anti-PDE4A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



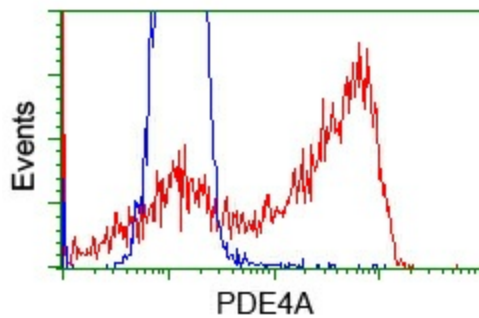
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-PDE4A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded prostate tissue within the normal limits using anti-PDE4A mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-PDE4A mouse monoclonal antibody (TA501202) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PDE4A ([RC207765]).



HEK293T cells transfected with either pCMV6-ENTRY PDE4A ([RC207765]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-PDE4A mouse monoclonal (TA501202), and then analyzed by flow cytometry.