

## Product datasheet for **TA501198AM**

### **PDE4A Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3D4]**

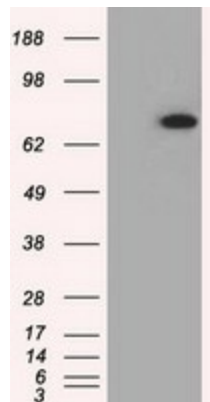
#### **Product data:**

|                                |  |
|--------------------------------|--|
| <b>Product Type:</b>           | Primary Antibodies   |
| <b>Clone Name:</b>             | OTI3D4   |
| <b>Applications:</b>           | FC, IF, IHC, WB  |
| <b>Recommended Dilution:</b>   | WB 1:2000, 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>          | 0.5 mg/ml  |
| <b>Purification:</b>           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| <b>Conjugation:</b>            | Biotin   |
| <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> | 72.0 kDa   |
| <b>Gene Name:</b>              | phosphodiesterase 4A   |
| <b>Database Link:</b>          | <a href="#">NP_006193</a><br><a href="#">Entrez Gene 5141 Human</a><br><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 |

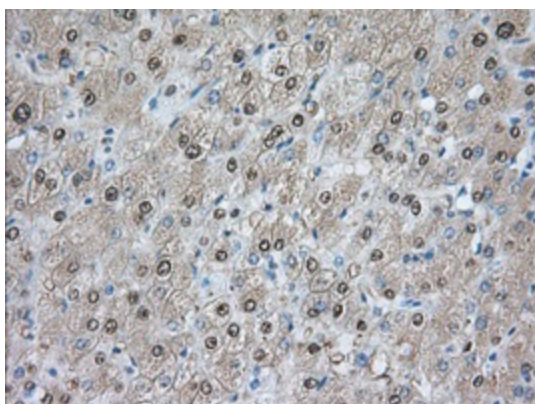


[View online »](#)

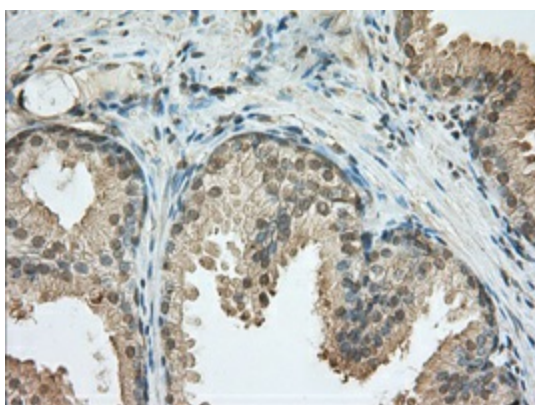
**Synonyms:** DPDE2; PDE4; PDE46  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

**Product images:**

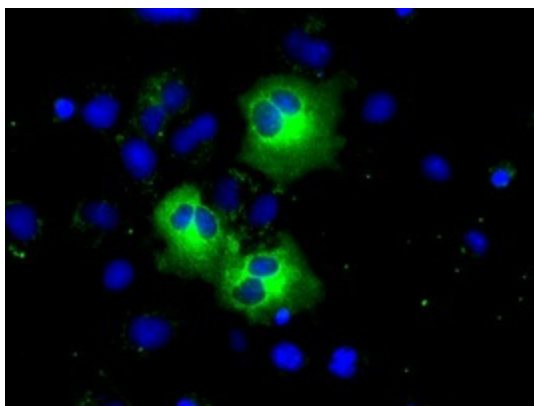
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDE4A ([RC207765], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDE4A.



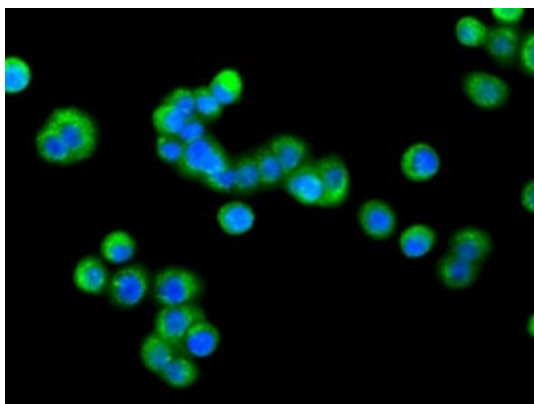
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PDE4A mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501198], Dilution 1:50)



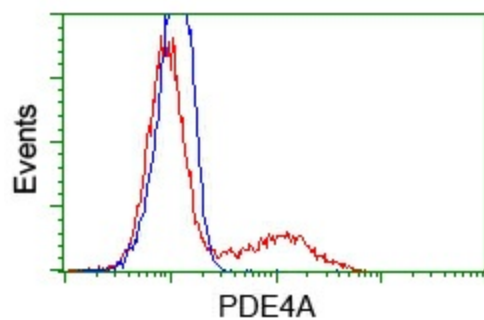
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-PDE4A mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501198], Dilution 1:50)



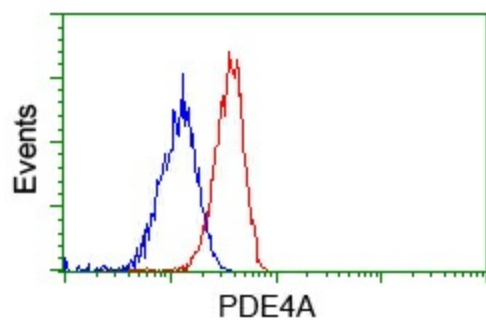
Anti-PDE4A mouse monoclonal antibody ([TA501198]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PDE4A ([RC207765]).



Immunofluorescent staining of HT29 cells using anti-PDE4A mouse monoclonal antibody ([TA501198]).



HEK293T cells transfected with either [RC207765] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDE4A antibody ([TA501198]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-PDE4A antibody ([TA501198]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).