

For Research Use Only

# PDE9A Polyclonal antibody

Catalog Number: 12648-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 12648-1-AP	<b>GenBank Accession Number:</b> BC009047	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5152	<b>Recommended Dilutions:</b> IHC 1:100-1:400 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76083	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphodiesterase 9A	
<b>Immunogen Catalog Number:</b> AG3372	<b>Calculated MW:</b> 68 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF/ICC, ELISA	<b>Positive Controls:</b> IHC : human prostate cancer tissue, IF/ICC : A549 cells,
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Cyclic nucleotide phosphodiesterases (PDEs), which hydrolyze the intracellular second messengers cAMP and cGMP to their corresponding monophosphates, play an important role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. PDE9A plays a role in signal transduction by regulating the intracellular concentration of these cyclic nucleotides. Multiple transcript variants encoding several different isoforms have been found for this gene. This protein has 16 isoforms with the MW between 44 kDa and 65 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jia-Yi You	35490726	Eur J Pharmacol	

## Storage

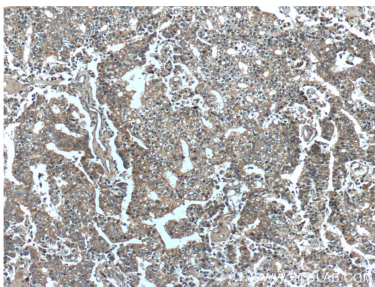
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

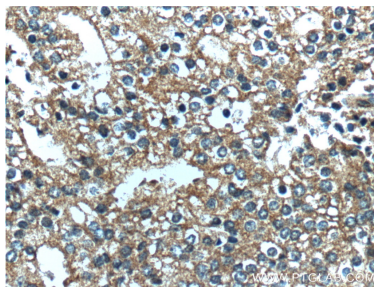
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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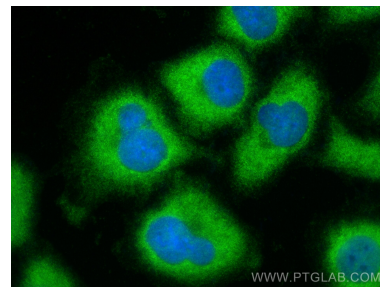
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12648-1-AP (PDE9A Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12648-1-AP (PDE9A Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using PDE9A antibody (12648-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).