

For Research Use Only

# PDE8A Polyclonal antibody

Catalog Number: 13956-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 13956-1-AP	<b>GenBank Accession Number:</b> BC060762	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 700 µg/ml	<b>GeneID (NCBI):</b> 5151	<b>Recommended Dilutions:</b> WB 1:500-1:2400
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O60658	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphodiesterase 8A	IHC 1:20-1:200
<b>Immunogen Catalog Number:</b> AG5069	<b>Calculated MW:</b> 93 kDa	
	<b>Observed MW:</b> 93 kDa, 88 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse testis tissue, mouse spleen tissue, SH-SY5Y cells
<b>Cited Applications:</b> WB, IF	IP : mouse testis tissue,
<b>Species Specificity:</b> human, mouse	IHC : human colon cancer tissue,
<b>Cited Species:</b> mouse, pig	
<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

PDE8A (high affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A) belongs to the cyclic nucleotide phosphodiesterase family and PDE8 subfamily. PDE8A plays a critical role in the modulation of at least one compartment of cAMP and hence PKA activity during  $\beta$ -adrenergic receptor ( $\beta$  AR) activation in ventricular myocytes (PMID:20353794). The full length protein contains several sites for protein phosphorylation, N-glycosylation, N-myristoylation, and amidation. It has 5 isoforms produced by alternative splicing with the molecular mass of 93 kDa, 88 kDa, 51 kDa and the isoform 4 and 5 have the same molecular mass of 66 kDa. (PMID:11738832).

## Notable Publications

Author	Pubmed ID	Journal	Application
Matthew Riopel	32534258	Mol Metab	WB
Annick Bergeron	26724956	Reprod Fertil Dev	
Amel Lounas	31462694	Sci Rep	WB,IF

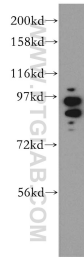
## Storage

**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

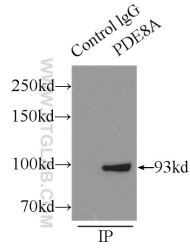
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

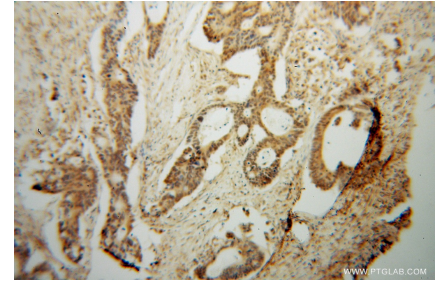
## Selected Validation Data



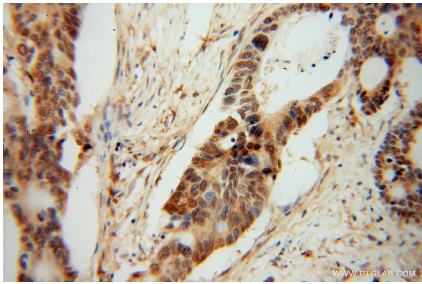
mouse testis tissue were subjected to SDS PAGE followed by western blot with 13956-1-AP (PDE8A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-PDE8A (IP:13956-1-AP, 5ug; Detection:13956-1-AP 1:1000) with mouse testis tissue lysate 8000ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 13956-1-AP (PDE8A antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 13956-1-AP (PDE8A antibody) at dilution of 1:100 (under 40x lens).