

For Research Use Only

# PDE5A Polyclonal antibody

Catalog Number: 22624-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 22624-1-AP	<b>GenBank Accession Number:</b> BC126233	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 450 µg/ml	<b>GeneID (NCBI):</b> 8654	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76074	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphodiesterase 5A, cGMP-specific	
<b>Immunogen Catalog Number:</b> AG18779	<b>Calculated MW:</b> 875 aa, 100 kDa	
	<b>Observed MW:</b> 100 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse lung tissue, IHC : human ovary tumor tissue, human thyroid cancer tissue IF : SKOV-3 cells,
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> bovine, human, mouse, rabbit	
<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

PDE5A (cGMP-binding cGMP-specific phosphodiesterase) plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides. This phosphodiesterase catalyzes the specific hydrolysis of cGMP to 5'-GMP. Through alternative splicing, the PDE5A gene produces three proteins (PDE5A1, PDE5A2, and PDE5A3) that differ in their N termini and range in mass from 89 to 105 kDa. (PMID: 25704994; 21215707). A second 70 kDa band was consistently observed in heart tissue that either reflected a splice variant or proteolytic fragment of PDE5A. (PMID: 15576651).

## Notable Publications

Author	Pubmed ID	Journal	Application
Liqian Chen	36099983	J Ethnopharmacol	WB
Teng Wu	33015041	Front Cell Dev Biol	WB,IHC
Megha Sharma	34185619	Am J Respir Cell Mol Biol	IF

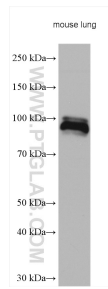
## Storage

**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

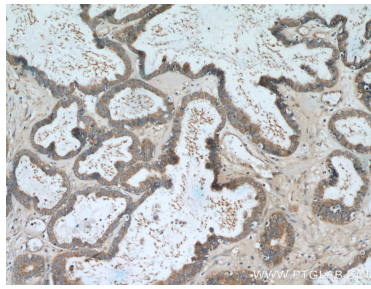
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

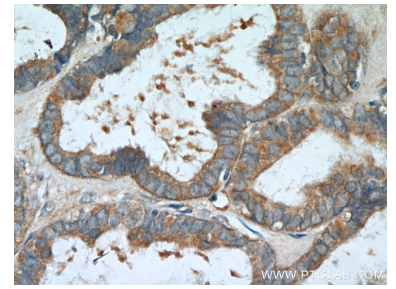
## Selected Validation Data



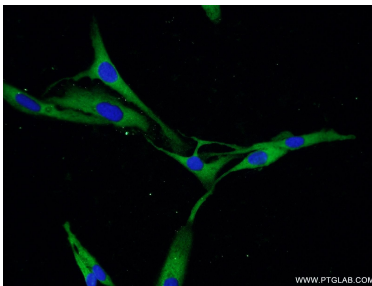
mouse lung lysates were subjected to SDS PAGE followed by western blot with 22624-1-AP (PDE5A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22624-1-AP (PDE5A Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22624-1-AP (PDE5A Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of SKOV-3 cells using 22624-1-AP (PDE5A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).