

For Research Use Only

PDE5A Polyclonal antibody

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



Basic Information

Catalog Number: 22624-1-AP	GenBank Accession Number: BC126233	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 8654	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: phosphodiesterase 5A, cGMP-specific	
Isotype: IgG	Calculated MW: 875 aa, 100 kDa	
Immunogen Catalog Number: AG18779	Observed MW: 100 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : mouse lung tissue, IHC : human ovary tumor tissue, human thyroid cancer tissue IF : SKOV-3 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: bovine, human, mouse, rabbit	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

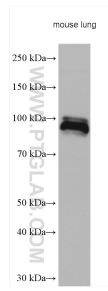
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

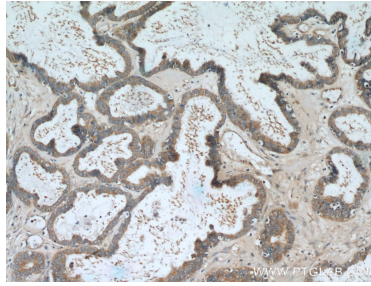
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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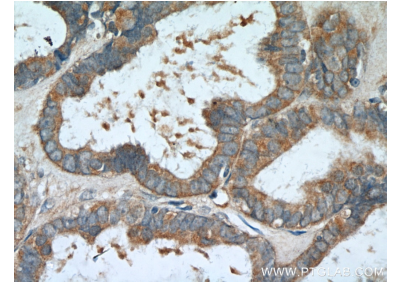
Selected Validation Data



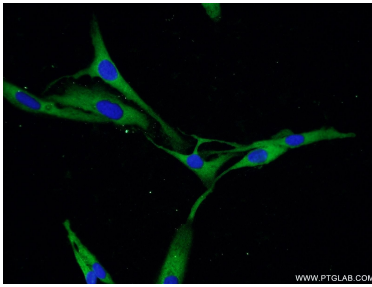
mouse lung lysates were subjected to SDS PAGE followed by western blot with 22624-1-AP (PDE5A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).