

For Research Use Only

PDE5A Polyclonal antibody

Catalog Number: 22624-1-AP

9 Publications



Basic Information

Catalog Number:

22624-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18779

GenBank Accession Number:

BC126233

GeneID (NCBI):

8654

UNIPROT ID:

O76074

Full Name:

phosphodiesterase 5A, cGMP-specific

Calculated MW:

875 aa, 100 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rabbit, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse lung tissue,

IHC : human ovary tumor tissue, human thyroid cancer tissue

IF/ICC : SKOV-3 cells,

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

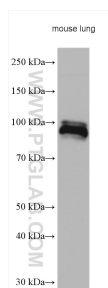
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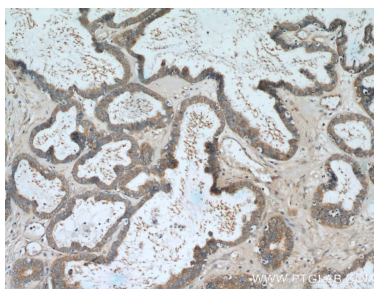
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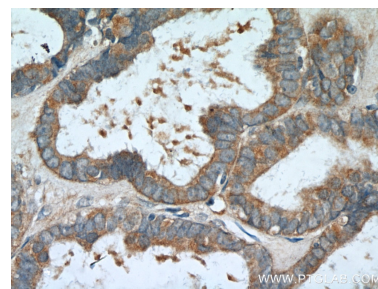
Selected Validation Data



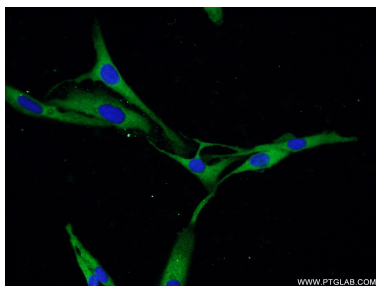
mouse lung lysates were subjected to SDS PAGE followed by western blot with 22624-1-AP (PDE5A antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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 Goat Anti-Rabbit IgG(H+L).