

For Research Use Only

PTGES3 Polyclonal antibody

Catalog Number: 15216-1-AP **4 Publications**



Basic Information

Catalog Number: 15216-1-AP	GenBank Accession Number: BC003005	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10728	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Source: Rabbit	Full Name: prostaglandin E synthase 3 (cytosolic)	IHC 1:250-1:1000
Isotype: IgG	Calculated MW: 19 kDa	IF 1:50-1:500
Immunogen Catalog Number: AG7384	Observed MW: 21-23 kDa	

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

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: rat brain tissue, mouse brain tissue, mouse heart tissue, rat heart tissue

IP: mouse heart tissue,

IHC: human lung cancer tissue,

IF: A549 cells, HeLa cells

Background Information

P23, encoded by the gene PTGES3, plays a key role in glucocorticoid signaling and was increased at the mRNA level in the DLPFC in individuals with schizophrenia (PMID: 24345775). In the GR heterocomplex in vitro, p23 is an obligatory co-factor¹⁹ and is the limiting component of the complex⁴⁴, functioning to stabilize the interaction of the complex with GR in the cytoplasm. Paradoxically, p23 also acts in the nucleus to inhibit GR-mediated gene transcription and disassemble GR transcriptional machinery in the nucleus (PMID: 12077419). In vivo, p23 is critical for appropriate glucocorticoid responsiveness (PMID: 17000766).

Notable Publications

Author	Pubmed ID	Journal	Application
Long Cheng	31106266	Sci Adv	WB
Liyuan Zhang	27384878	Oncotarget	WB
Yujia Fan	35197566	Cell Death Differ	WB

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

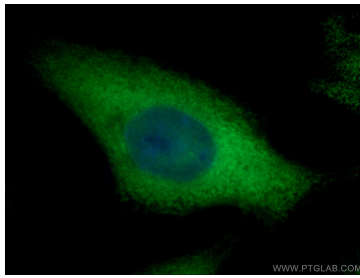
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

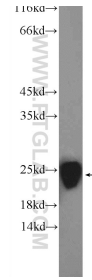
E: proteintech@ptglab.com
W: ptglab.com

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

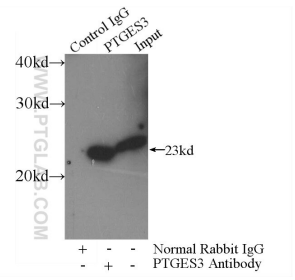
Selected Validation Data



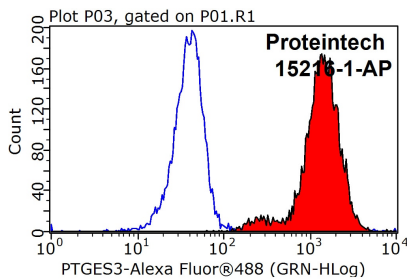
Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 15216-1-AP (PTGES3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



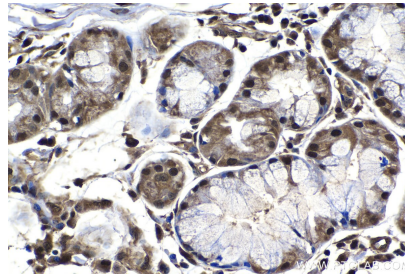
rat brain tissue were subjected to SDS PAGE followed by western blot with 15216-1-AP (PTGES3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



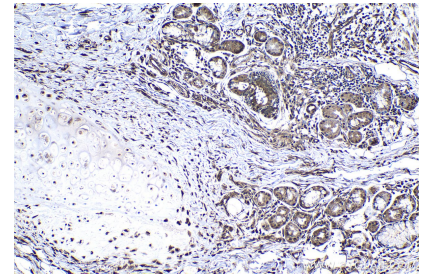
IP Result of anti-PTGES3 (IP:15216-1-AP, 3ug; Detection:15216-1-AP 1:300) with mouse heart tissue lysate 4000ug.



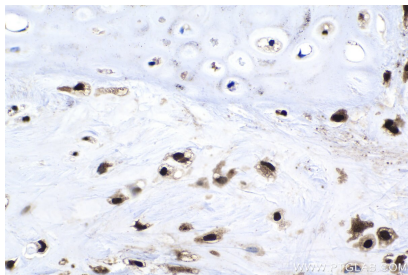
1X10⁶ HeLa cells were stained with 0.2ug PTGES3 antibody (15216-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



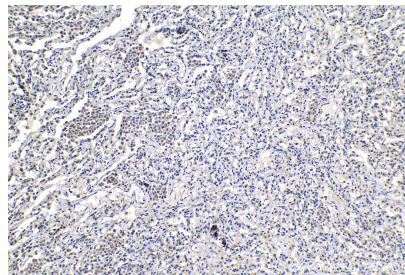
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15216-1-AP (PTGES3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15216-1-AP (PTGES3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15216-1-AP (PTGES3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15216-1-AP (PTGES3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).