

For Research Use Only

PTGES3 Polyclonal antibody

Catalog Number: 15216-1-AP

5 Publications



Basic Information

Catalog Number:

15216-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7384

GenBank Accession Number:

BC003005

GeneID (NCBI):

10728

UNIPROT ID:

Q15185

Full Name:

prostaglandin E synthase 3 (cytosolic)

Calculated MW:

19 kDa

Observed MW:

21-23 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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/ICC : A549 cells, HeLa cells

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

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

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

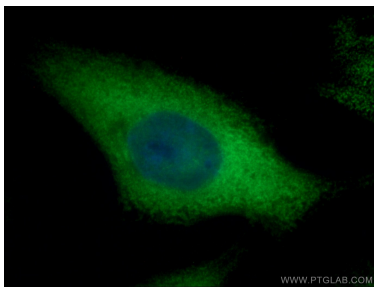
T: 4006900926

E: Proteintech-CN@ptglab.com

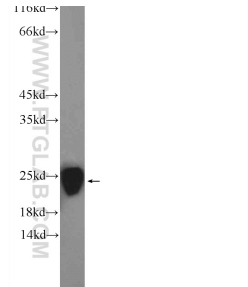
W: ptgcn.com

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

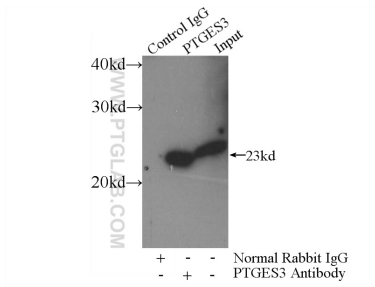
Selected Validation Data



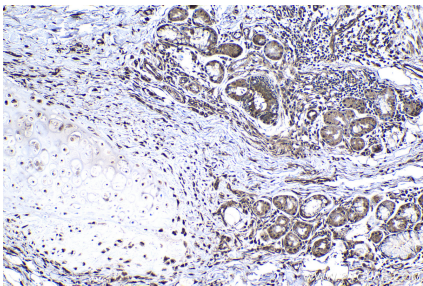
Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 15216-1-AP (PTGES3 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated Goat Anti-Rabbit IgG(H+L).



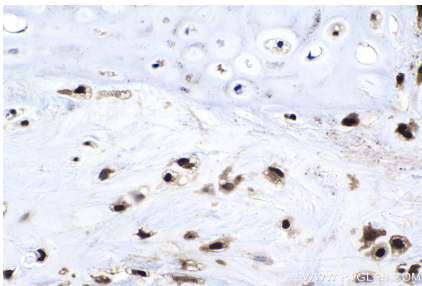
rat brain tissue were subjected to SDS PAGE followed by western blot with 15216-1-AP (PTGES3 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



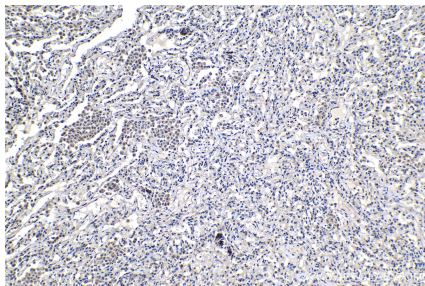
IP result of anti-PTGES3 (IP:15216-1-AP, 3ug; Detection:15216-1-AP 1:300) with mouse heart tissue lysate 4000ug.



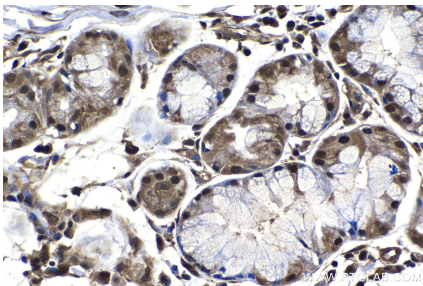
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 15216-1-AP (PTGES3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).