

For Research Use Only

COX-1/Cyclooxygenase-1 Polyclonal antibody



Catalog Number: 13393-1-AP

Featured Product

19 Publications

Basic Information

Catalog Number:

13393-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4055

GenBank Accession Number:

BC029840

GeneID (NCBI):

5742

UNIPROT ID:

P23219

Full Name:

prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)

Calculated MW:

599 aa, 69 kDa

Observed MW:

60-72 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 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, goat, rat, 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: HeLa cells, C2C12 cell, Neuro-2a cells

IP: HeLa cells,

IHC: human stomach tissue,

Background Information

PTGS1 (Prostaglandin G/H synthase 1) belongs to the prostaglandin G/H synthase family and catalyzes the conversion of arachidonic acid to prostaglandin H₂, which is subsequently metabolized to various biologically active prostaglandins. It is also named as COX1 (Cyclooxygenase-1). There is no PTGS1 expression in fetal samples (prostate, seminal vesicles, or ejaculatory ducts), and only minimal expression in adult tissues (PMID: 10999846). PTGS1 has some isoforms with MW of 56-72 kD and PTGS1 can form homodimer.

Notable Publications

Author	Pubmed ID	Journal	Application
Zrinka Mihaljević	32883025	Int J Mol Sci	WB
Siddhesh Aras	25315652	Mitochondrion	WB
Min Zheng	36257219	Phytomedicine	WB, IHC

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:

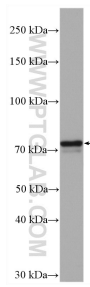
T: 4006900926

E: Proteintech-CN@ptglab.com

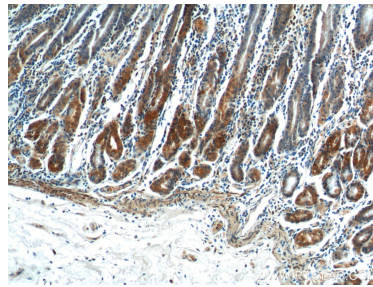
W: ptgcn.com

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

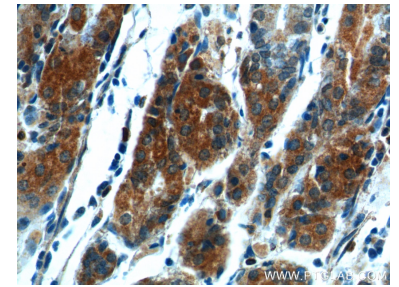
Selected Validation Data



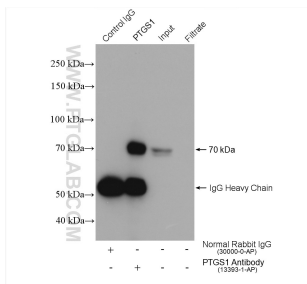
HeLa cells were subjected to SDS PAGE followed by western blot with 13393-1-AP (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13393-1-AP (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13393-1-AP (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-COX-1/Cyclooxygenase-1 (IP:13393-1-AP, 4ug; Detection:13393-1-AP 1:500) with HeLa cells lysate 1280 ug.