

For Research Use Only

COX-1/Cyclooxygenase-1 Polyclonal antibody

Catalog Number: 13393-1-AP

Featured Product

27 Publications



Basic Information

Catalog Number:

13393-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

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 1:1000-1:8000

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

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, goat

Positive Controls:

WB : A431 cells, Neuro-2a cells, HeLa cells, THP-1 cells, C2C12 cells

IP : HeLa cells,

IHC : human stomach tissue,

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

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

*** 20ul sizes contain 0.1% BSA

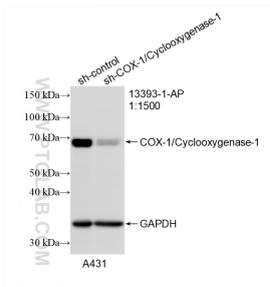
For technical support and original validation data for this product please contact:

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

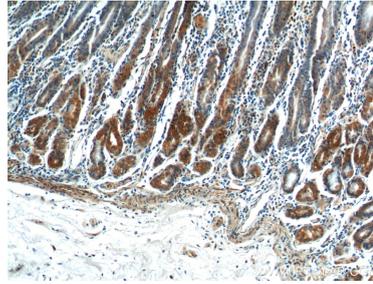
E: proteintech@ptglab.com
W: ptglab.com

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

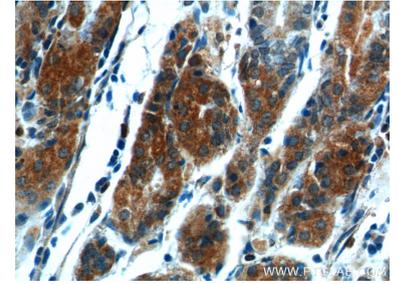
Selected Validation Data



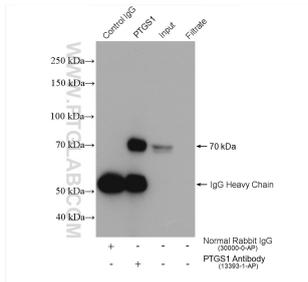
WB result of COX-1/Cyclooxygenase-1 antibody (13393-1-AP; 1:1500; incubated at room temperature for 1.5 hours) with sh-Control and sh-COX-1/Cyclooxygenase-1 transfected A431 cells.



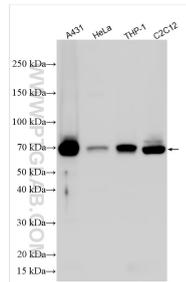
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13393-1-AP (COX-1/Cyclooxygenase-1 antibody at dilution of 1:200 (under 10x lens).



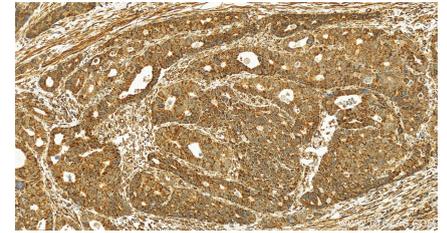
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13393-1-AP (COX-1/Cyclooxygenase-1 antibody at dilution of 1:200 (under 40x lens).



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.



Various lysates were subjected to SDS PAGE followed by western blot with 13393-1-AP (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:4000 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 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).