

# 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, IF, IHC

## 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 H<sub>2</sub>, 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

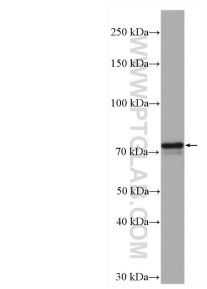
For technical support and original validation data for this product please contact:

T: 4006900926

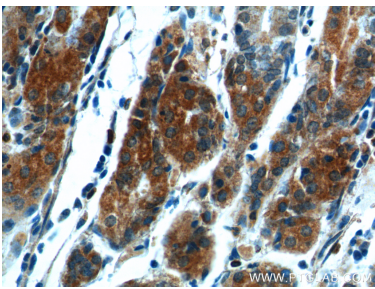
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

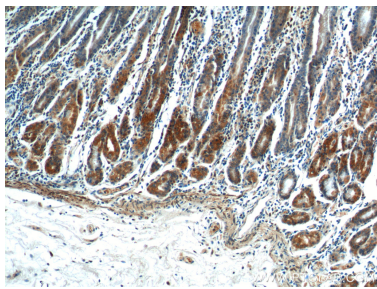
Selected Validation Data



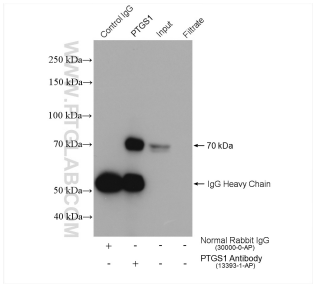
HeLa cells were subjected to SDS PAGE followed by western blot with 13393-1-AP (COX-1/Cyclooxygenase-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 13393-1-AP (COX-1/Cyclooxygenase-1 antibody at dilution of 1:200 (under 40x 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 10x 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.