

COX2 Polyclonal ANTIBODY

Catalog Number: 12375-1-AP

Featured Product

93 Publications

Basic Information

Catalog Number:
12375-1-AP

Size:
39 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG3025

GenBank Accession Number:
BC013734

GeneID (NCBI):
5743

Full Name:
prostaglandin-endoperoxide synthase 2
(prostaglandin G/H synthase and
cyclooxygenase)

Calculated MW:
604aa, 66 kDa

Observed MW:
70-74 kDa, 64 kDa

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human,mouse,rat

Cited Species:

chicken, human, mouse, rat

**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 : LPS treated HEK-293; RAW264.7, HEK-293
cells, LPS treated RAW264.7, mouse embryo
tissue, rat stomach tissue

IHC : human lung cancer tissue; human placenta
tissue, human testis tissue, human ovary tissue,
human colon cancer tissue, human prostate
hyperplasia tissue

IF : HepG2 cells;

Background Information

COX2 (Prostaglandin G/H synthase 2; PTGS2) mediates the formation of prostaglandins from arachidonate. Its subunit structure is homodimer. The fully N-glycosylated PTGS2 is 72–74 kDa and the aglycosylated is 66 kDa(PMD:19656660). It also expresses a band of 39 kDa after unspecific cleavage(PMD:17509125). The 50 kDa band of fragmented PTGS2 has also previously been detected in AD brains(PMD:14724276).

Notable Publications

Author	Pubmed ID	Journal	Application
Xufeng Tao	25083618	Transplantation	WB
Xiaoqing Zheng	28965082	Redox Biol	WB
Yannan Liu	30207362	Food Funct	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

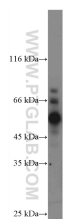
For technical support and original validation data for this product please contact:

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

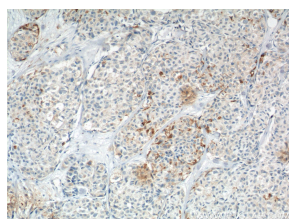
E: proteintech@ptglab.com
W: ptglab.com

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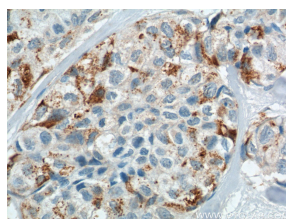
Selected Validation Data



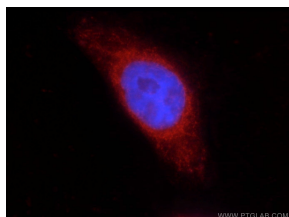
LPS treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 12375-1-AP(PTGS2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12375-1-AP(COX2 antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12375-1-AP(COX2 antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunofluorescent analysis of HepG2 cells using 12375-1-AP(COX2 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG