

For Research Use Only

COX2/ Cyclooxygenase 2/ PTGS2 Polyclonal antibody



Catalog Number: 12375-1-AP

Featured Product

140 Publications

Basic Information

Catalog Number:

12375-1-AP

Size:

150UL, Concentration: 320 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

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:

604 aa, 68 kDa

Observed MW:

70-74 kDa, 64 kDa

Purification Method:

Antigen affinity purification

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:

chick, 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 (PMID:19656660). It also expresses a band of 39 kDa after unspecific cleavage (PMID:17509125). The 50 kDa band of fragmented PTGS2 has also previously been detected in AD brains (PMID:14724276).

Notable Publications

Author	Pubmed ID	Journal	Application
Xufeng Tao	25083618	Transplantation	WB
Longlong Li	32940033	J Agric Food Chem	WB
Xiaoqing Zheng	28965082	Redox Biol	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

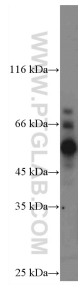
For technical support and original validation data for this product please contact:

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

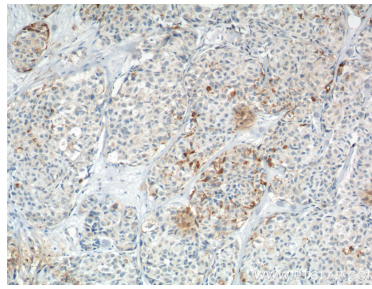
E: proteintech@ptglab.com
W: ptglab.com

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

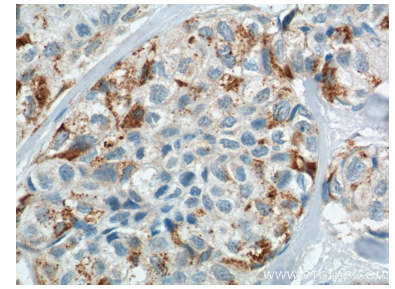
Selected Validation Data



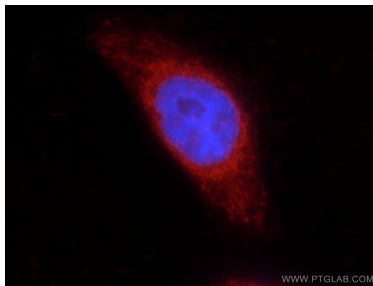
LPS treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 12375-1-AP (PTGS2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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 retrieval with Tris-EDTA buffer (pH 9.0).



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 retrieval with Tris-EDTA buffer (pH 9.0).



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