

For Research Use Only

COX2/ Cyclooxygenase 2/ PTGS2 Monoclonal antibody



Catalog Number: 66351-1-Ig

Featured Product

120 Publications

Basic Information

Catalog Number:

66351-1-Ig

Size:

2000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG24721

GenBank Accession Number:

BC013734

GeneID (NCBI):

5743

UNIPROT ID:

P35354

Full Name:

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

Calculated MW:

604 aa, 68 kDa

Observed MW:

66-70 kDa

Purification Method:

Protein A purification

CloneNo.:

3G2B9

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:1000-1:4000

IF 1:200-1:800

Applications

Tested Applications:

IF-P, IHC, WB, ELISA

Cited Applications:

WB, IP, IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, 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 : RAW 264.7 cells, LPS treated RAW 264.7 cells, LPS treated HeLa cells, HEK-293 cells

IHC : human cervical cancer tissue, human breast cancer tissue, human colon cancer tissue

IF : mouse lung tissue,

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 |
|-----------------|-----------|-------------|-------------|
| Shan-Shan Zhang | 36235633 | Nutrients | WB |
| Yue Li | 36234847 | Molecules | WB |
| Zixuan Liu | 33017703 | Chemosphere | 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:

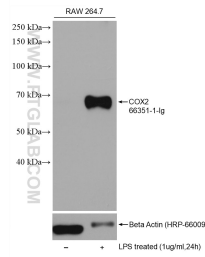
T: 4006900926

E: Proteintech-CN@ptglab.com

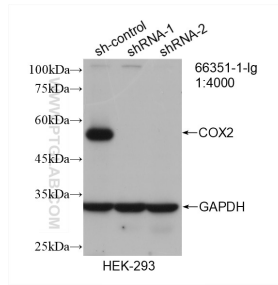
W: ptgcn.com

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

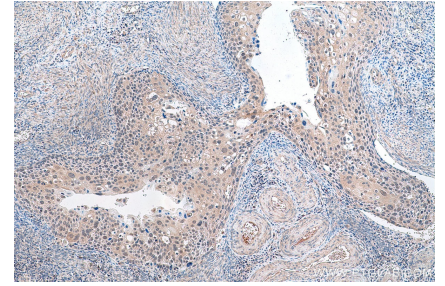
Selected Validation Data



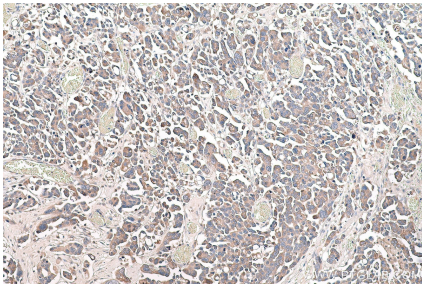
Non-treated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 66351-1-Ig (COX2/ Cyclooxygenase 2/ PTGS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



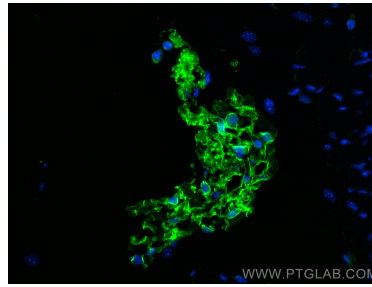
WB result of COX2/ Cyclooxygenase 2/ PTGS2 antibody (66351-1-Ig; 1:4000; incubated at room temperature for 1.5 hours) with sh-control and sh-COX2/ Cyclooxygenase 2/ PTGS2 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66351-1-Ig (COX2/ Cyclooxygenase 2/ PTGS2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66351-1-Ig (COX2/ Cyclooxygenase 2/ PTGS2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using COX2/ Cyclooxygenase 2/ PTGS2 antibody (66351-1-Ig, Clone: 3G2B9) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).