For Research Use Only

COX2/ Cyclooxygenase 2/ PTGS2 Monoclonal antibody

Catalog Number:66351-1-Ig Featured Product 284 Publications

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Basic Information

Catalog Number:
66351-1-Ig

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-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat, pig, bovine

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 HeLa cells, LPS treated RAW 264.7 cells

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

IF-P : 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

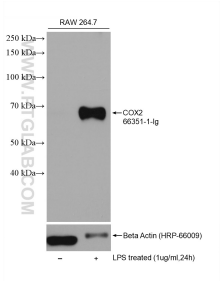
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

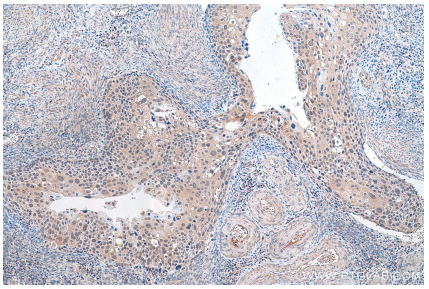
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

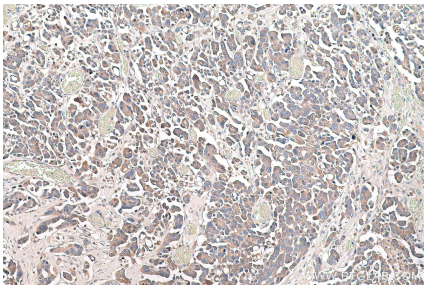
Selected Validation Data



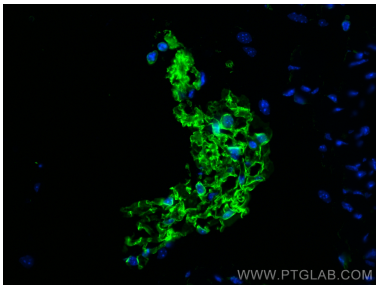
Non-treated and LPS treated RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 66351-1-Ig (COX2/ Cyclooxygenase 2/ PTGS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).