

COX2/PTGS2 Rabbit mAb

Catalog No.: A25901 **Recombinant** **6 Publications**

Basic Information

Observed MW

74kDa/74kd

Calculated MW

69kDa

Category

Primary antibody

Applications

WB,IP,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3288

Background

Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.

Recommended Dilutions

WB 1:1000 - 1:3000

IP 0.5µg-4µg antibody for
300µg-1500µg extracts
of whole cells

IF-P 1:50 - 1:200

IHC-P 1:50 - 1:200

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

5743

Swiss Prot

P35354

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% sodium azide,0.05% BSA,50% glycerol,pH7.3.

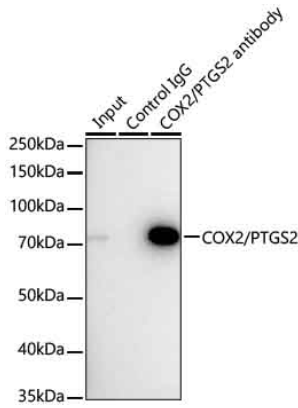
Contact

☎ | 400-999-6126

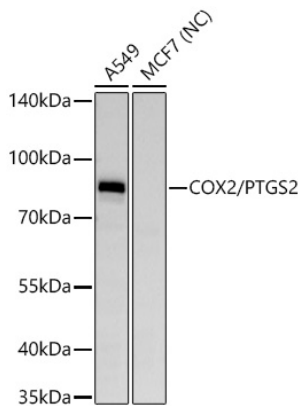
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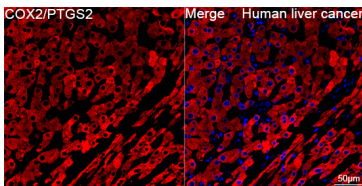
Validation Data



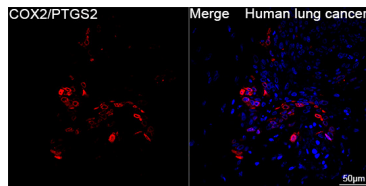
Immunoprecipitation of COX2/PTGS2 from 1200 µg extracts of RAW264.7 cells treated with LPS (0.1µg/ml, 6h) was performed using 0.5 µg of COX2/PTGS2 Rabbit mAb (A25901). Rabbit IgG isotype control (AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using COX2/PTGS2 Rabbit mAb (A25901) at a dilution of 1:1000.



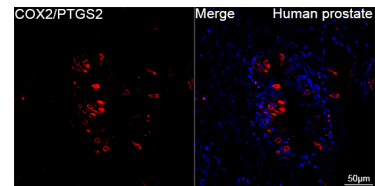
Western blot analysis of various lysates using COX2/PTGS2 Rabbit mAb (A25901) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Negative control (NC): MCF7. Exposure time: 30s.



Confocal imaging of paraffin-embedded Human liver cancer tissue using COX2/PTGS2 Rabbit mAb (A25901, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.

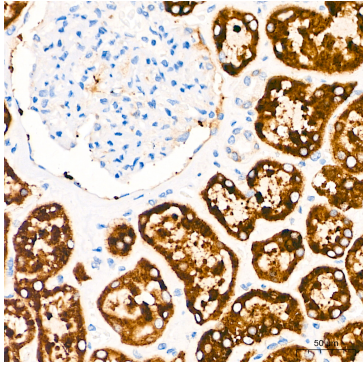


Confocal imaging of paraffin-embedded Human lung cancer tissue using COX2/PTGS2 Rabbit mAb (A25901, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.

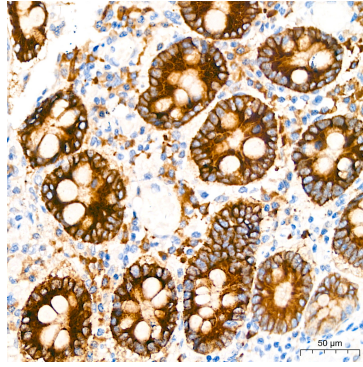


Confocal imaging of paraffin-embedded Human prostate tissue using COX2/PTGS2 Rabbit mAb (A25901, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer(pH 6.0) prior to IF staining. Objective: 40x.

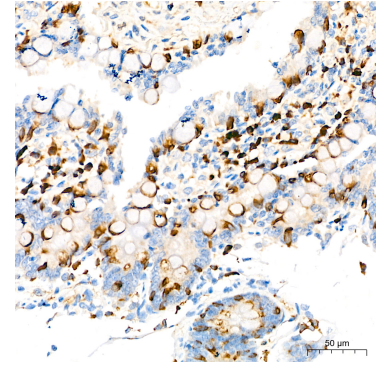
Validation Data



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using COX2/PTGS2 Rabbit mAb (A25901) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using COX2/PTGS2 Rabbit mAb (A25901) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using COX2/PTGS2 Rabbit mAb (A25901) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.