Leader in Biomolecular Solutions for Life Science

www.abclonal.com

COX2/PTGS2 Rabbit pAb

Catalog No.: A1253SP **151 Publications**

Basic Information

Observed MW
74 kDa

Calculated MW
69 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-P,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

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	1:3000 - 1:10000
IP	0.5 μg - 4 μg antibody for 200 μg - 600 μg extracts of whole cells
IF/ICC	1:200 - 1:400
IF-P	1:200 - 1:400
IHC-P	1:50 - 1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)

Immunogen Information

Gene ID
5743/19225

Swiss Prot
P35354/Q05769

Immunogen
This information is considered to be commercially sensitive.

Synonyms
COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS; COX2/PTGS2

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide.
May contain 0.05% BSA as specified on the Certificate of Analysis.

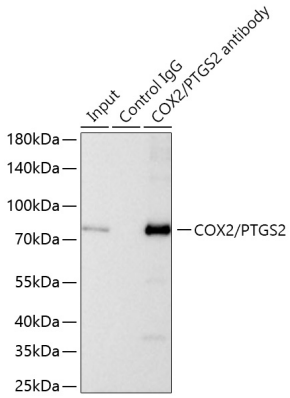
Contact

400-999-6126

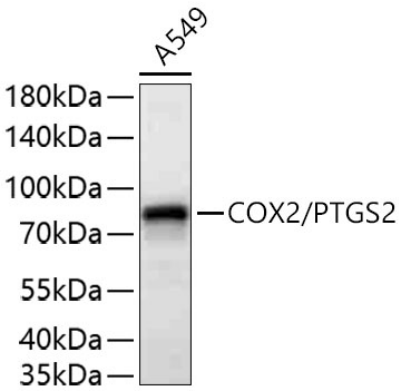
cn.market@abclonal.com.cn

www.abclonal.com.cn

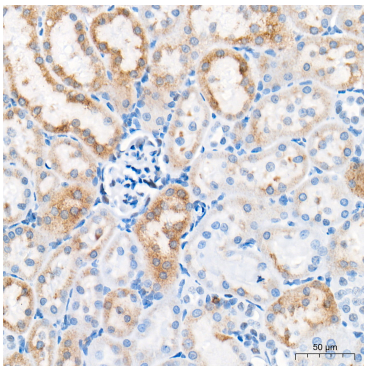
Validation Data



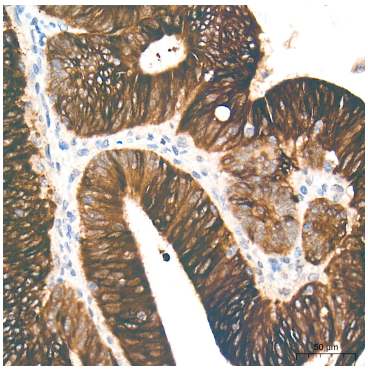
Immunoprecipitation of COX2/PTGS2 from 300 µg extracts of RAW 264.7 cells treated with LPS (1 µg/mL, 16 hours) was performed using 0.5 µg of COX2/PTGS2 Rabbit pAb (A1253SP). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using COX2/PTGS2 Rabbit pAb (A1253SP) at a dilution of 1:2000.



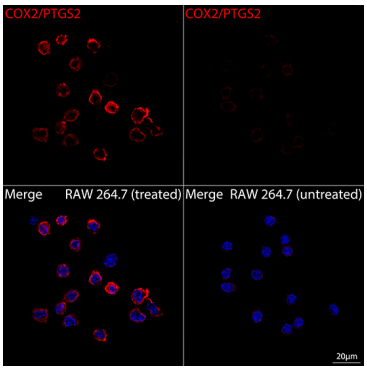
Western blot analysis of lysates from A549 cells using COX2/PTGS2 Rabbit pAb (A1253SP) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10 s.



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using COX2/PTGS2 Rabbit pAb (A1253SP) at a dilution of 1:500 (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 carcinoma tissue using COX2/PTGS2 Rabbit pAb (A1253SP) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of RAW 264.7 cells (treated with LPS) and RAW 264.7 cells (untreated) using COX2/PTGS2 Rabbit pAb (A1253SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.