

COX-2 (PT0297R) PT™ Rabbit mAb

CatalogNo: YM8171 **Recombinant** 

★IHC

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Pig

Applications

- WB, IHC, IF, ELISA

MW

- 69kD (Calculated)
75kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

IHC 1:100-1:500

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000,

Basic Information

Clonality Monoclonal

Clone Number PT0297R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity Endogenous

Target Information

Gene name PTGS2 COX2

Protein Name Prostaglandin G/H synthase 2 (Cyclooxygenase-2) (COX-2) (PHS II) (Prostaglandin H2 synthase 2) (PGH synthase 2) (PGHS-2) (Prostaglandin-endoperoxide synthase 2)

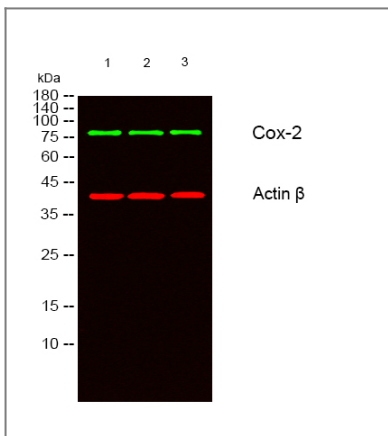
Organism	Gene ID	UniProt ID
Human	5743;	P35354;

Cellular Localization Cytoplasm

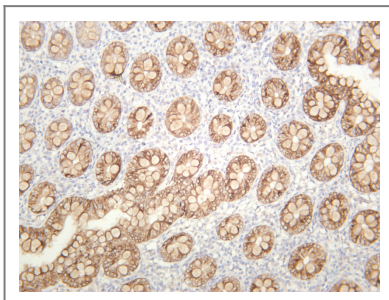
Tissue specificity Endothelial cell ,Epidermal keratinocytes in primary culture ,Lung ,Pe

Function Catalytic activity:Arachidonate + AH (2) + 2 O (2) = prostaglandin H (2) + A + H (2) O. ,cofactor:Binds 1 heme B (iron-protoporphyrin IX) group per subunit. ,Disease:Likely to play a role in inflammatory diseases such as rheumatoid arthritis. ,Function:May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity. ,induction:By cytokines and mitogens. ,miscellaneous:This enzyme acts both as a dioxygenase and as a peroxidase. ,miscellaneous:This enzyme is the target of nonsteroidal anti-inflammatory drugs such as aspirin. ,pathway:Lipid metabolism; prostaglandin biosynthesis. ,similarity:Belongs to the prostaglandin G/H synthase family. ,similarity:Contains 1 EGF-like domain. ,subunit:Homodimer. ,

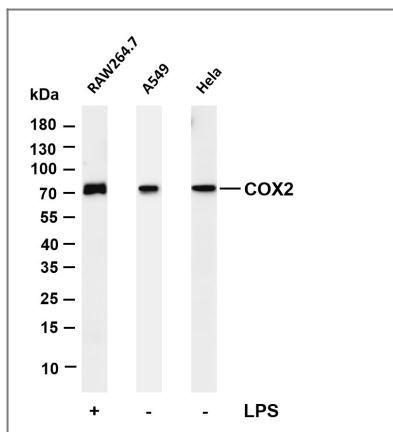
Validation Data



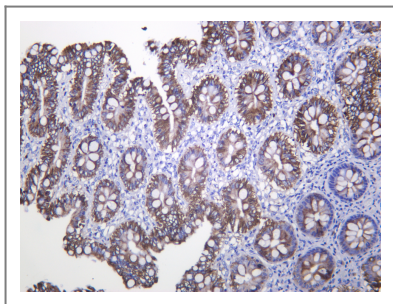
Western blot analysis of lysates from 1) A549, 2) HELA ,3) MCF-7 cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody (5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4°C over night,secondary antibody (cat:RS23710)was diluted at 1:10000, 37° 1hour.



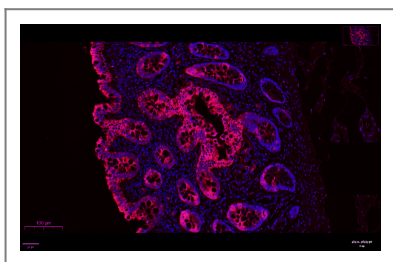
Human appendix was stained with anti-COX2 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-COX2 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: RAW264.7 treated with LPS (100mg/mL) of 24 hours Lane 2: A549 Lane 3: HeLa Predicted band size: 69kDa Observed band size: 75kDa



Human colon was stained with anti-COX-2 (PT0297R) Rabbit antibody



Fluorescence immunohistochemical analysis of Human colon

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Please scan the QR code to access additional product information:
COX-2 (PT0297R)
PT™ Rabbit mAb

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