

COX-2 (PT0297R) PT™ Rabbit mAb

CatalogNo: YM8171 Recombinant 

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

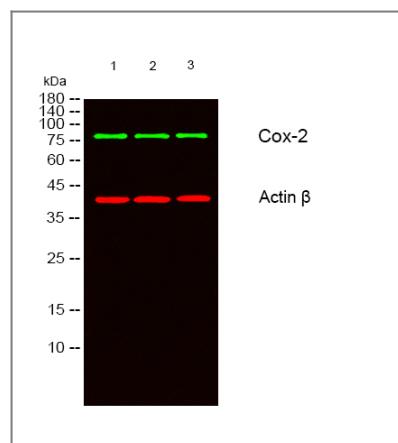
Immunogen Information

Specificity Endogenous

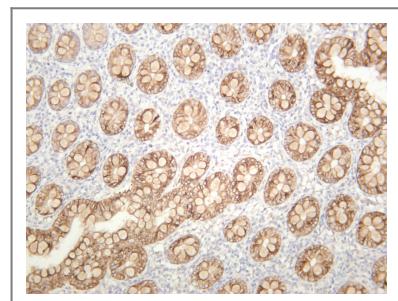
Target Information

| 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., | | |

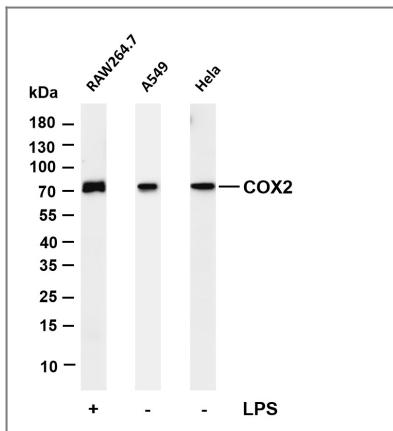
Validation Data



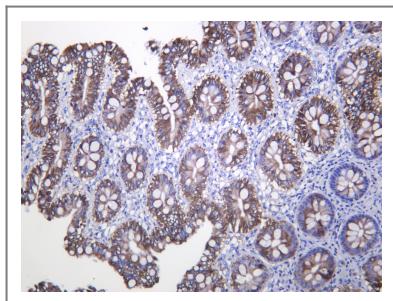
Western blot analysis of lysates from 1) A549, 2) HEA, 3) MCF-7 cells, (Green) primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control,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



Contact information

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**COX-2 (PT0297R)
 PT™ Rabbit mAb**

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