

## COX-2 (ABT-COX2) Mouse mAb

CatalogNo: YM4881

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human

#### Applications

- IHC, WB, IF, ELISA

#### MW

- 69kD (Calculated)
- 70kD (Observed)

#### Isotype

- IgG2b, Kappa

### Recommended Dilution Ratios

**IHC 1:200-1000**

**WB 1:500-2000**

**IF 1:100-500**

**ELISA 1:1000-5000**

### 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

### Basic Information

**Clonality** Monoclonal

**Clone Number** ABT-COX2

### Immunogen Information

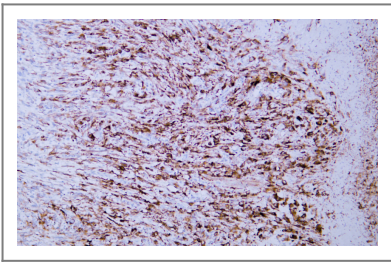
**Immunogen** Synthesized peptide derived from human COX-2 (cyclooxygenase-2) AA range: 500-604

**Specificity** The antibody can specifically recognize human COX-2 protein. In western blotting of Hela and A549 cell lysates, the antibody can label a 70 kDa band corresponding to COX-2.

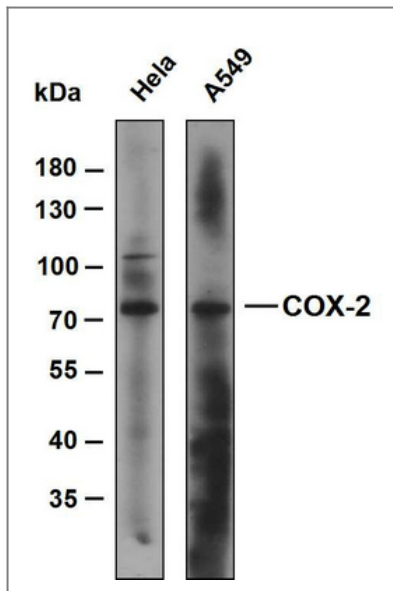
## | Target Information

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	<a href="#">5743</a> ;	<a href="#">P35354</a> ;
Cellular Localization	Cytoplasmic		
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.,		

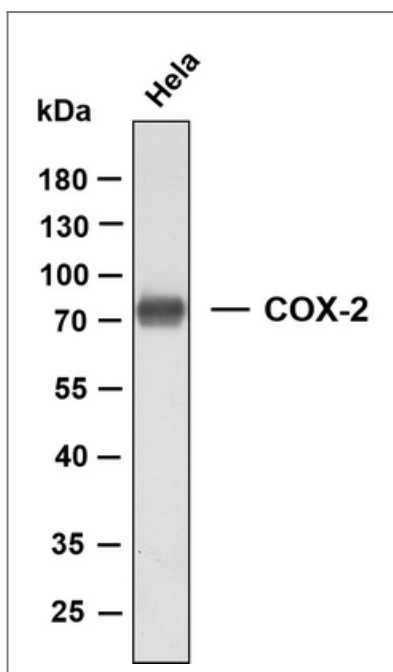
## | Validation Data



Human colon carcinoma tissue was stained with Anti-COX-2 (ABT-COX2) Antibody



Various whole cell lysates were separated by 8% SDS-PAGE, and the membrane was blotted with anti-COX-2. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody.



Whole cell lysates of HeLa were separated by 10% SDS-PAGE, and the membrane was blotted with anti-COX-2 antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody.

## Contact information

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Please scan the QR code to access additional product information:  
**COX-2 (ABT-COX2)**  
**Mouse mAb**