



## COX2 (ANT0097R) Rabbit mAb

CatalogNo: ANT8171 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA  
Quantity : 100 ug/vial

### Host Species

- Rabbit
- Human,Mouse,Rat,

### Reactivity

- WB,IHC,IF,ELISA

### Applications

### MW

- 69kD (Calculated)
- 75kD (Observed)

### Isotype

- IgG,Kappa

## Recommended Dilution Ratios

IHC 1:100-1:500

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000,

## Storage

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

## Basic Information

**Clonality** Monoclonal

**Clone Number** ANT0097R

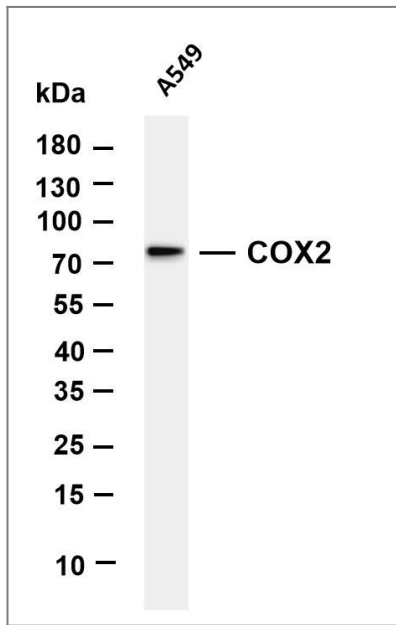
## Immunogen Information

**Specificity** Endogenous

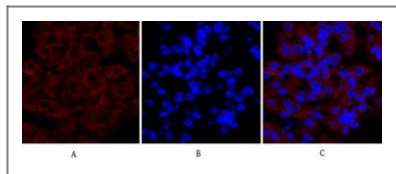
## Target Information

Gene name	ANTGS2 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	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 activitydependent 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.,		

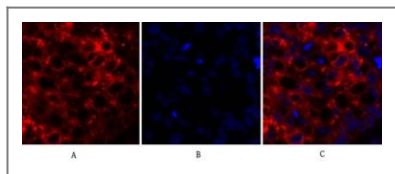
## Validation Data



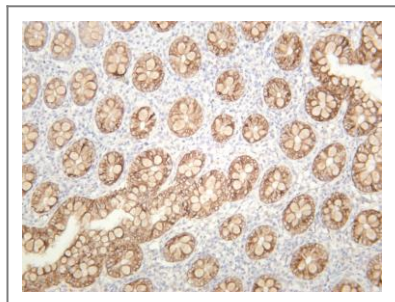
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-COX2 (ANT0097R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Predicted band size: 69kDa Observed band size: 75kDa



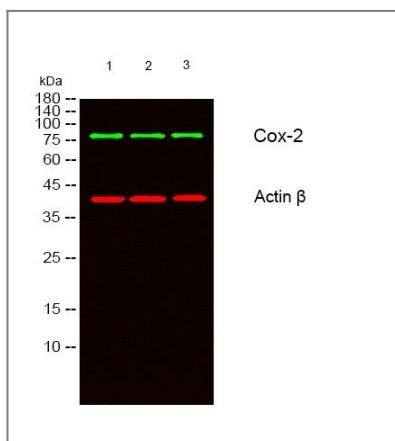
Immunofluorescence analysis of human-liver-cancer tissue. 1,Cox-2 Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B Immunofluorescence analysis of human-lung-cancer tissue. 1,Cox-2



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Human appendix was stained with anti-COX2 (ANT0097R) rabbit antibody



Western blot analysis of lysates from 1) A549, 2) HELA ,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.

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