

# COX2/PTGS2 Rabbit pAb

Catalog No.: A1253

121 Publications

## Basic Information

### Observed MW

69kDa

### Calculated MW

69kDa

### Category

Primary antibody

### Applications

ELISA, WB, IHC-P

### 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 1:500 - 1:1000

IHC-P 1:50 - 1:200

## Immunogen Information

### Gene ID

5743

### Swiss Prot

P35354

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 375-604 of COX2/PTGS2 (NP\_000954.1).

### Synonyms

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

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

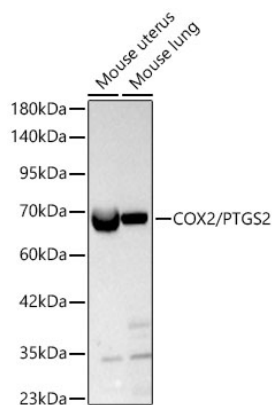
Affinity purification

### Storage

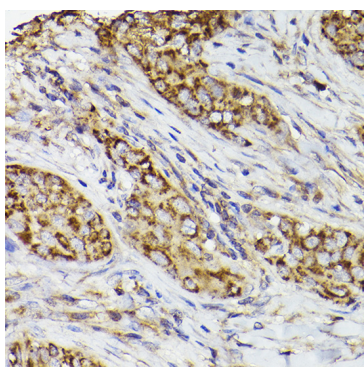
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

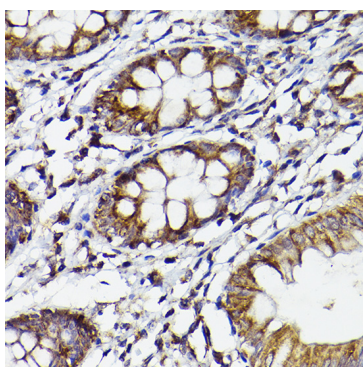
## Validation Data



Western blot analysis of various lysates using COX2/PTGS2 Rabbit pAb (A1253) at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (A5014) 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: 90s.



Immunohistochemistry analysis of COX2/PTGS2 in paraffin-embedded human breast cancer using COX2/PTGS2 Rabbit pAb (A1253) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of COX2/PTGS2 in paraffin-embedded human colon using COX2/PTGS2 Rabbit pAb (A1253) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.