

## 36-3059: Anti-Cyclooxygenase-2 (COX-2) Monoclonal Antibody(Clone: COX2/3232R)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	COX2/3232R
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	PTGS2
<b>Gene ID :</b>	5743
<b>Uniprot ID :</b>	P35354
<b>Alternative Name :</b>	Glucocorticoid-regulated inflammatory Prostaglandin G/H synthase; GRIPGHS; Macrophage activation-associated marker protein P71/73; PES-2; PGG/HS; PGHS-2; Prostaglandin endoperoxide synthase 2; Prostaglandin endoperoxide synthase 2 (PTGS2); TIS10
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Recombinant human COX2 protein fragment (around aa 442-572) (exact sequence is proprietary)

### Description

Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many cellular and physiologic processes. Prostaglandin H<sub>2</sub> (PGH<sub>2</sub>) is an intermediate molecule in formation of the prostaglandins. Cyclooxygenase-1 (Cox-1) and cyclooxygenase-2 (Cox-2) are prostaglandin synthases that catalyze the formation of PGH<sub>2</sub> from arachidonic acid (AA). Cox-1 and Cox-2 are isozymes of prostaglandin-endoperoxidase synthase (PTGS). Cox-1 is constitutively expressed in most tissues and is thought to serve in general housekeeping functions. Cox-2 is efficiently induced in migratory cells responding to pro-inflammatory stimuli and is considered to be an important mediator of inflammation. Both enzymes are targets for the nonsteroidal therapeutic anti-inflammatory drugs, NSAIDs. COX2 expression is significantly increased in 85-90% of human colorectal adenocarcinomas whereas levels of COX-1 are not changed.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);



Fig. 1: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/3232R).

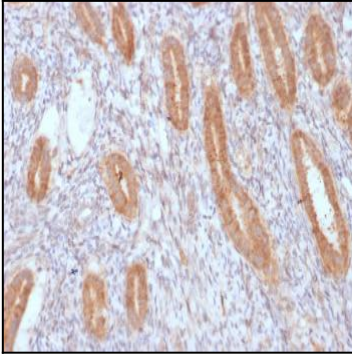


Fig. 2: Formalin-fixed, paraffin-embedded human Endometrium stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/3232R).