

## COX-2 (ABT31R) rabbit mAb

<b>Catalog No :</b>	YM7266
<b>Reactivity :</b>	Human;
<b>Applications :</b>	IHC;WB; ELISA
<b>Target :</b>	COX2
<b>Fields :</b>	>>Arachidonic acid metabolism;>>Metabolic pathways;>>NF-kappa B signaling pathway;>>VEGF signaling pathway;>>C-type lectin receptor signaling pathway;>>IL-17 signaling pathway;>>TNF signaling pathway;>>Retrograde endocannabinoid signaling;>>Serotonergic synapse;>>Ovarian steroidogenesis;>>Oxytocin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Leishmaniasis;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Pathways in cancer;>>Chemical carcinogenesis - DNA adducts;>>MicroRNAs in cancer;>>Small cell lung cancer
<b>Gene Name :</b>	PTGS2
<b>Protein Name :</b>	COX-2
<b>Human Gene Id :</b>	5743
<b>Human Swiss Prot No :</b>	P35354
<b>Immunogen :</b>	Synthesized peptide derived from human COX-2 AA range:500-604
<b>Specificity :</b>	This antibody detects endogenous levels of COX2
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, Rabbit IgG1, Kappa
<b>Dilution :</b>	IHC 1:100-500, WB 1:500-1000, ELISA 1:5000-20000
<b>Purification :</b>	Recombinant Expression and Affinity purified

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

**Molecularweight :** 69kD

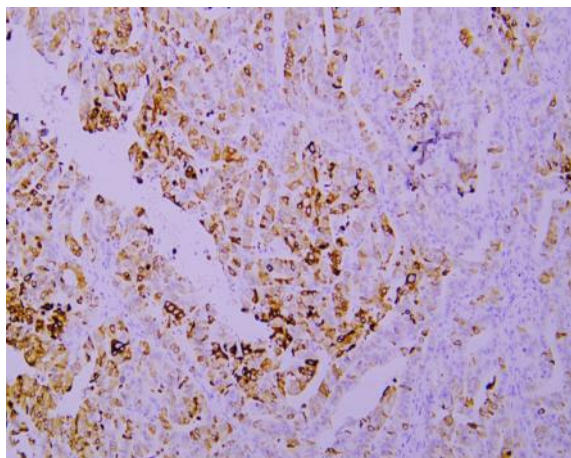
**Background :** Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation 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. [provided by RefSeq, Feb 2009],

**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.,

**Subcellular Location :** Cytoplasmic

**Expression :** Endothelial cell,Epidermal keratinocytes in primary culture,Lung,Pe

## Products Images



Immunohistochemical analysis of paraffin-embedded human Colon carcinoma. 1, Antibody was incubated at 4° overnight. 2, TRIS-EDTA of pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).