Anti-COX2 antibody

Description	Mouse monoclonal to COX2.

Model	STJ97061
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	IHC
Immunogen	Synthetic Peptide
Gene ID	5743
Gene Symbol	PTGS2
Dilution range	IHC 1:200
Specificity	The antibody detects endogenouse COX2 proteins.
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Clone ID	3D4
Note	For Research Use Only (RUO).
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
Clonality	Monoclonal
Conjugation	Unconjugated
Isotype	IgG1

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:9605OMIM:600262
Alternative Names	Prostaglandin G/H synthase 2 Cyclooxygenase-2 COX-2 PHS II Prostaglandin H2 synthase 2 PGH synthase 2 PGHS-2 Prostaglandin-endoperoxide synthase 2
Function	Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis.
Cellular Localization	Microsome membrane. Peripheral membrane protein. Endoplasmic reticulum membrane. Peripheral membrane protein.
Post-translational Modifications	S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-526.