

## Anti-COX2 antibody

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<b>Description</b>	Mouse monoclonal to COX2.
<b>Model</b>	STJ97061
<b>Host</b>	Mouse
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	IHC
<b>Immunogen</b>	Synthetic Peptide
<b>Gene ID</b>	<a href="#">5743</a>
<b>Gene Symbol</b>	<a href="#">PTGS2</a>
<b>Dilution range</b>	IHC 1:200
<b>Specificity</b>	The antibody detects endogenous COX2 proteins.
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Clone ID</b>	3D4
<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Prostaglandin G/H synthase 2 Cyclooxygenase-2 COX-2 PHS II Prostaglandin H2 synthase 2 PGH synthase 2 PGHS-2 Prostaglandin-endoperoxide synthase 2
<b>Clonality</b>	Monoclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG1

<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:9605OMIM:600262</a>
<b>Alternative Names</b>	Prostaglandin G/H synthase 2 Cyclooxygenase-2 COX-2 PHS II Prostaglandin H2 synthase 2 PGH synthase 2 PGHS-2 Prostaglandin-endoperoxide synthase 2
<b>Function</b>	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.
<b>Cellular Localization</b>	Microsome membrane. Peripheral membrane protein. Endoplasmic reticulum membrane. Peripheral membrane protein.
<b>Post-translational Modifications</b>	S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-526.