

## Product datasheet for **TA590771**

### COX2 (PTGS2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	WB: 1:5000-1:20000; ELISA: 1:100-1:2000; IHC: 1:10-1:2000; IHC-P 1:250-1:2000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DNA immunization. This antibody is specific for the C Terminus Region of the target protein.
Formulation:	20 mM Potassium Phosphate, 150 mM Sodium Chloride, pH 7.0
Concentration:	0.83mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	prostaglandin-endoperoxide synthase 2
Database Link:	<a href="#">NP_000954</a> <a href="#">Entrez Gene 19225 Mouse</a> <a href="#">Entrez Gene 5743 Human</a> <a href="#">P35354</a>
Background:	COX2 (Cyclooxygenase-2, PGHS2) is an inducible dimeric enzyme belonging to prostaglandin G/H synthase family. COX2, similar to COX1, functions to form prostaglandins by catalyzing the synthesis of cyclic endoperoxides from arachidonic acid. COX2 expression is induced by lipopolysaccharide (LPS) and peptoglycan (PGN) and is highly expressed in activated macrophages. It has been implicated as a mediator of inflammation and a possible role in prostanoid signaling in activity-dependent plasticity (1). COX2 is considered as an ideal marker in immune response regulation studies and a therapeutic target against inflammatory diseases (2).
Synonyms:	COX-2; COX2; GRIPGHS; hCox-2; PGG/HS; PGHS-2; PHS-2



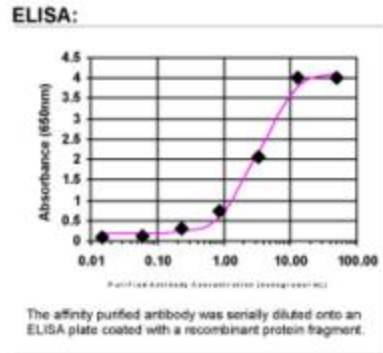
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**Note:** This antibody was generated by SDIX's Genomic Antibody Technology® (GAT). [Learn about GAT](#)

**Protein Families:** Druggable Genome

**Protein Pathways:** Arachidonic acid metabolism, Pathways in cancer, Small cell lung cancer, VEGF signaling pathway

### Product images:



ELISA: COX2 Antibody