

## Product datasheet for **TA318952**

### PTGS1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 0.5-4 ug/ml
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide mapping to the N-terminus of mouse Cox-3
Formulation:	100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	prostaglandin-endoperoxide synthase 1
Database Link:	<a href="#">NP_542158</a> <a href="#">Entrez Gene 19224 Mouse</a> <a href="#">P23219</a>



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**Background:**

COX proteins are membrane-associated heme proteins that have cyclooxygenase and peroxidase activities. These enzymes are targets of NSAID (Nonsteroidal anti-inflammatory drugs) such as aspirin. Prostaglandins (PGs) formed by the enzymatic activity of COX-1 are primarily involved in the regulation of homeostatic functions throughout the body, whereas PGs formed by COX-2 primarily mediate pain, fever, and inflammation. COX-1 is constitutively expressed, with particularly high expression in gastrointestinal tissues. COX-2 is induced by cytokines and mitogens and is likely to play a role in inflammatory diseases such as rheumatoid arthritis. In rodents and humans, COX-3 encodes proteins with completely different amino acid sequences than COX-1 or COX-2 and without COX activity. It has been suggested COX-3 as the key to unlocking the mystery of the mechanism of action of acetaminophen.

**Synonyms:**

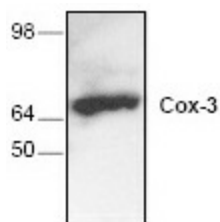
COX1; COX3; HS; PCOX1; PES-1; PGG; PGHS-1; PGHS1; PHS1; PTGHS

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

Arachidonic acid metabolism, Metabolic pathways

**Product images:**

Western blot analysis of Cox-3 with mouse small intestine tissue lysate.