

Product datasheet for **AP23304PU-N**

PTGS1 (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: At 2µg/ml with the appropriate system to detect COX1 in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect COX1 in formalin fixed and paraffin embedded tissues.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a sequence near the N-terminal of human PTGS1(COX1)
Specificity:	This antibody detects Cyclooxygenase 1 near N-term. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	prostaglandin-endoperoxide synthase 1
Database Link:	Entrez Gene 19224 Mouse Entrez Gene 24693 Rat Entrez Gene 5742 Human P23219



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Background:

Cyclooxygenase 1 (COX1), also known as Prostaglandin-endoperoxide synthase (PTGS1), is the key enzyme in prostaglandin biosynthesis. The gene was approximately 40 kb long, with 11 protein-coding exons. There were 599 amino acid residues with a calculated molecular mass of approximately 68 kD. By analysis of a human/hamster somatic hybrid DNA panel, Funk et al. (1991) demonstrated that the PTGS1 gene maps to chromosome 9. Human prostaglandin endoperoxide synthase exhibited 91% amino acid identity with the sheep enzyme. Prostaglandin synthase 1 gene disruption in mice reduces arachidonic acid-induced inflammation and indomethacin-induced gastric ulceration.

Synonyms:

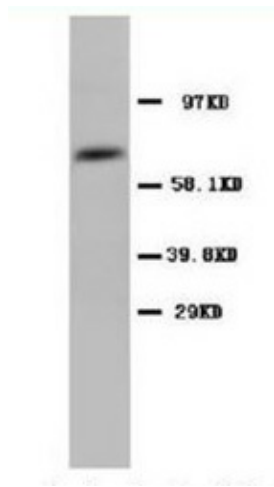
PGH synthase 1, PGHS-1, COX-1, COX1, PTGS1, Cyclooxygenase-1

Protein Families:

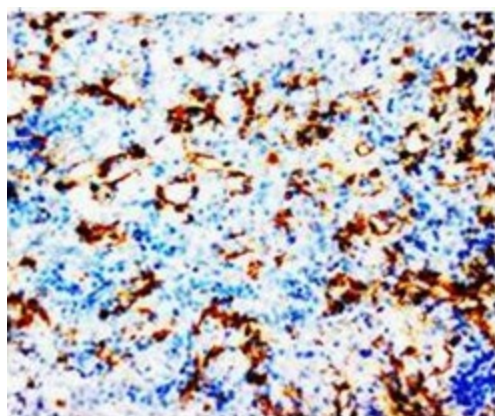
Druggable Genome, Transmembrane

Protein Pathways:

Arachidonic acid metabolism, Metabolic pathways

Product images:

Western blot analysis of rat testicle tissue lysis using COX1 antibody



AP23304PU-N COX1 antibody staining of Paraffin Embedded Rat Spleen Tissue Sections in cytoplasm. DAB chromogenic reaction.