

Datasheet for ABIN1106880
anti-PTGS1 antibody (N-Term)



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2 Images

Overview

Quantity:	0.1 mg
Target:	PTGS1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTGS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic peptide corresponding to a sequence near the N-terminal of human PTGS1(COX1) .Remarks: Sequence different to the related rat and mouse sequence by two amino acids.
Isotype:	IgG
Specificity:	This antibody detects Cyclooxygenase 1 near N-term. No cross reactivity with other proteins.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Immunogen affinity purified

Target Details

Target:	PTGS1
Alternative Name:	Cyclooxygenase 1 (PTGS1 Products)

Target Details

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: COX-1, COX1, Cyclooxygenase-1, PGH synthase 1, PGHS-1, PTGS1, Prostaglandin G/H synthase 1, Prostaglandin H2 synthase 1, Prostaglandin-endoperoxide synthase 1

Gene ID: 5742

NCBI Accession: [NP_000953](#)

UniProt: [P23219](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Reconstitution: 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg NaN₃

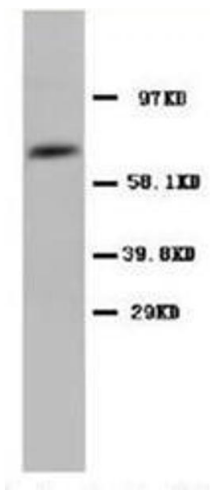
Preservative: Sodium azide, Thimerosal (Merthiolate)

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

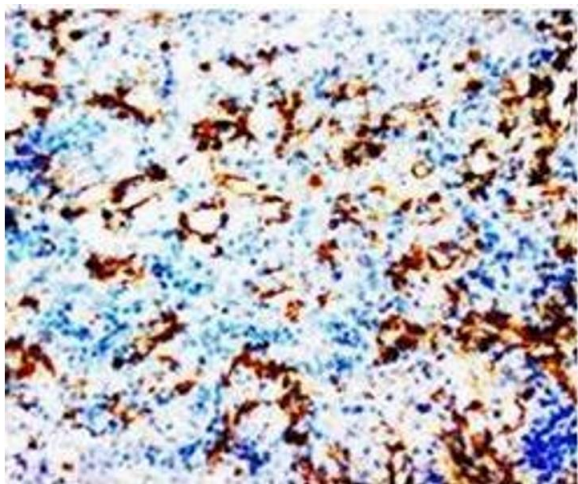
Storage: 4 °C/-20 °C

Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Western Blotting

Image 1. Western blot analysis of rat testicle tissue lysis using COX1 antibody



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. AP23304PU-N COX1 antibody staining of Paraffin Embedded Rat Spleen Tissue Sections in cytoplasm. DAB chromogenic reaction.