Product datasheet

Anti-COX-1/Cyclooxygenase-1/PTGS1 Antibody

Catalog Number: *BA0608*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.
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Basic Information

Product Name	Anti-COX-1/Cyclooxygenase-1/PTGS1 Antibody
Gene Name	PTGS1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human COX1, different from the related rat and mouse sequences by two amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Cyclooxygenase 1(COX1), also known as Prostaglandin-endoperoxide synthase(PTGS1) or mitochondrial cytochrome c oxidase subunit 1, 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.

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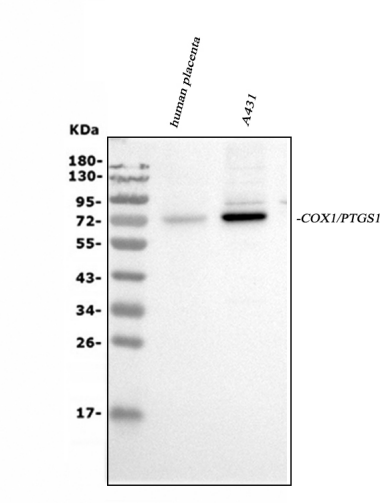
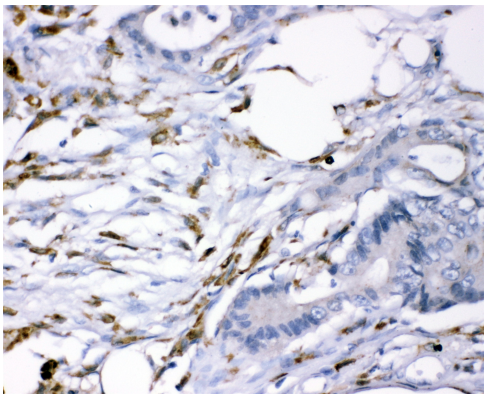
Reference

Anti-COX-1/Cyclooxygenase-1/PTGS1 Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of COX-1/Cyclooxygenase-1/PTGS1 using anti-COX-1/Cyclooxygenase-1/PTGS1 antibody (BA0608). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta liver tissue lysates,
Lane 2: A431 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-COX-1/Cyclooxygenase-1/PTGS1 antigen affinity purified polyclonal antibody (BA0608) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for COX-1/Cyclooxygenase-1/PTGS1 at approximately 70 kDa. The expected band size for COX-1/Cyclooxygenase-1/PTGS1 is at 69 kDa.



IHC analysis of COX-1/Cyclooxygenase-1/PTGS1 using anti-COX-1/Cyclooxygenase-1/PTGS1 antibody (BA0608).
COX-1/Cyclooxygenase-1/PTGS1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-COX-1/Cyclooxygenase-1/PTGS1 Antibody (BA0608) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.