

anti-Human, Mouse COX-1 Polyclonal Antibody | anti-COX-1 antibody

COX-1 Antibody

CATALOG # AAA111069	REACTIVITY Human, Mouse	APPLICATIONS Immunocytochemistry, Western Blot
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PRODUCT SYNONYMS

COX-1; Polyclonal Antibody; COX-1 Antibody; anti-COX-1 antibody

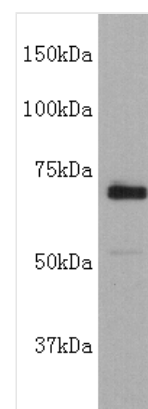
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to near C-terminal residues of COX-1.
Purity/Purification	Affinity purified
Form/Format	1*TBS (pH7.4), 0.5%BSA, 25% Glycerol.
Sequence Length	599
Applicable Applications for anti-COX-1 antibody	ICC (Immunocytochemistry), WB (Western Blot)
Preservative	0.05% Sodium Azide.
Cellular Localization	Microsome Membrane; ER Membrane; Peripheral Membrane Protein
Positive Control	NIH/3T3
Preparation and Storage	Store at +4 degree C after thawing. Aliquot store at -20 degree C or -80 degree C. Avoid repeated freeze/thaw cycles.

IMAGES


Application Data

A: NIH/3T3 B: 293T Fig: Western blot analysis on Hela using anti-COX-1 polyclonal antibody


Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-COX-1 antibody	Cyclooxygenase-1(Cox-1) and cyclooxygenase-2 (Cox-2) are prostaglandin synthases that catalyze the formation of PGH2 from arachidonic acid. Cox1 is expressed constitutively in most tissues, while Cox2 expression is induced by lipopolysaccharide (LPS) and peptoglycan (PGN). PGN activates Ras, leading to phosphorylation of Raf at Ser338 and Erk 1/2 at Tyr204). Both Cox1 and Cox2 play a role in the neuropathology of Alzheimer's disease by potentiating gamma-secretase activity and beta-amyloid generation. Pharmacological inhibition of COX can provide relief from the symptoms of inflammation and pain.
References	1. Sakamoto C. Roles of COX-1 and COX-2 in gastrointestinal pathophysiology. J Gastroenterol, 1998, 33(5)?618 2. Lee C, Chen KW, Sheu FS, et al. Studies of a tumor-associated antigen, COX-1, recognized by a monoclonal antibody. Cancer Immunol Immunother, 1992, 35(1)?19 3. Takahashi Y., Ueda N., et al.; "Immunoaffinity purification and cDNA cloning of human platelet prostaglandin endoperoxide synthase (cyclooxygenase)."; Biochem. Biophys. Res. Commun. 182:433-438(1992).

NCBI AND UNIPROT INFORMATION

NCBI GI #	18104967
NCBI GeneID	5742
NCBI Accession #	NP_000953.2
NCBI GenBank Nucleotide #	NM_000962.3
UniProt Accession #	P23219; Q15122; Q3HY28; Q3HY29; Q5T7T6; Q5T7T7; Q5T7T8; A8K1V7; B4DHQ2; B4E2S5
Molecular Weight	~72kDa
NCBI Official Full Name	prostaglandin G/H synthase 1 isoform 1
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 1
NCBI Official Symbol	PTGS1
NCBI Official Synonym Symbols	COX1; COX3; PHS1; PCOX1; PES-1; PGHS1; PTGHS; PGG/HS; PGHS-1
NCBI Protein Information	prostaglandin G/H synthase 1
UniProt Protein Name	Prostaglandin G/H synthase 1
UniProt Gene Name	PTGS1
UniProt Synonym Gene Names	COX1; COX-1; PGH synthase 1; PGHS-1; PHS 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cox-1-antibody-immunocytochemistry-western-blot-elisa/111069>