

Rabbit anti-Human PTGS2/COX2/COX-2 Polyclonal Antibody | anti-PTGS2 antibody

PTGS2/COX2/COX-2 Rabbit anti-Human Polyclonal Antibody

CATALOG # AAA162958	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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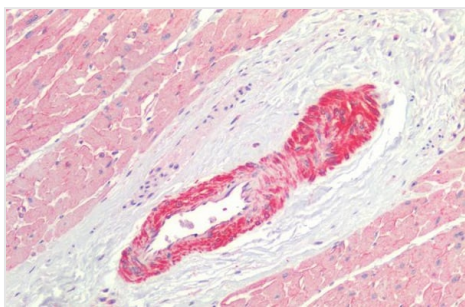
PRODUCT SYNONYMS

PTGS2/COX2/COX-2; Polyclonal Antibody; PTGS2/COX2/COX-2 Rabbit anti-Human Polyclonal Antibody; PathPlus PTGS2/COX2/COX-2 Antibody; PTGS2; COX-2; Cyclooxygenase-2; COX2; Cyclooxygenase 2b; HCox-2; GRIPGHS; PGH synthase 2; PGHS-2; PHS II; PHS-2; Prostaglandin H2 synthase 2; PGG/HS; Prostaglandin G/H synthase 2; anti-PTGS2 antibody

PRODUCT SPECIFICATIONS

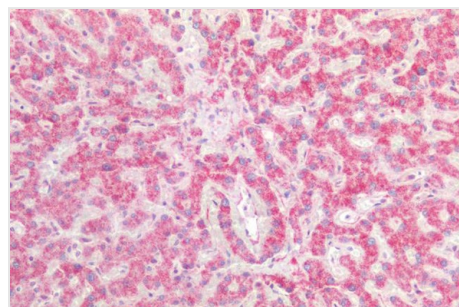
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, 0.1% Sodium Azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PTGS2 antibody	IHC (Immunohistochemistry)
Target	Human PTGS2/COX2/COX-2
Immunogen	LP-10554, synthetic peptide
Conjugation	Unconjugated
Preparation and Storage	Aliquot and store undiluted at -20 degree C or below for up to 1 year. Can be stored undiluted at 4 degree C for up to 1 month. Avoid freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

PTGS2/COX2/COX-2 Antibody-Human Heart: Formalin-Fixed, Paraffin-Embedded (FFPE)



IHC (Immunohistochemistry)

PTGS2/COX2/COX-2 Antibody-Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-PTGS2 antibody	COX-2 antibody is an unconjugated rabbit polyclonal antibody to COX-2 (PTGS2/COX2) from human. Validated for IHC. Cyclooxygenase 2 (COX-2/PTGS2/ prostaglandin-endoperoxide synthase 2) is an enzyme involved in the conversion of arachidonic acid to prostaglandin H2, a precursor of prostacyclin that is released during inflammation. Unlike COX1, which is constitutively expressed, COX2 is induced upon inflammation. COX2 is a frequent target for inhibitors (coxibs) to treat inflammatory conditions. Aspirin and nonsteroidal anti-inflammatory agents also inhibit prostaglandin and prostacyclin production by COX2. Overexpression of COX2 also occurs in many cancers, and COX2 inhibitors may assist in preventing the development of colorectal cancers. Staining for COX2 is expected to be cytoplasmic and potentially membranous. In normal tissues, it is expressed in a variety of cells including endothelial cells, smooth muscle cells, cardiac myocytes, the brain and spinal cord, kidney, the GI tract, lung and bladder.
References	Biochem Soc Transact 2008 36(3):543; Nat Reviews Drug Discovery 2003 2:179; J Cell Phys 2019 234(5):5683; Gastroenterology 1994 107(4):1183, Curr Med Chem 2000 7(11):1113; PNAS 2016 113(2):434

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506265
NCBI GeneID	5743
NCBI Accession #	NP_000954.1
NCBI GenBank Nucleotide #	NM_000963
UniProt Accession #	P35354; Q16876; A8K802
Molecular Weight	68,996 Da
NCBI Official Full Name	prostaglandin G/H synthase 2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
NCBI Official Symbol	PTGS2
NCBI Official Synonym Symbols	COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS
NCBI Protein Information	prostaglandin G/H synthase 2; PHS II; PGH synthase 2; cyclooxygenase 2b; prostaglandin H2 synthase 2
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	PTGS2
UniProt Synonym Gene Names	COX2; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_HUMAN

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.