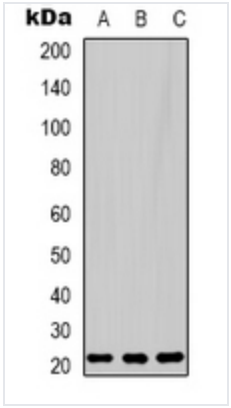
PGHS-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PGHS-2, Polyclonal Antibody
Full Product Name	Rabbit anti-PGHS-2 Antibody
Product Gene Name	anti-PGHS-2 antibody
Product Synonym Names	COX2; Prostaglandin G/H synthase 2; Cyclooxygenase-2; COX-2; PHS II; Prostaglandin H2 synthase 2; PGH synthase 2; PGHS-2; Prostaglandin-endoperoxide synthase 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	68,996 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (186640944..186649559, complement). Location: 1q25.2-q25.3
OMIM	600262
3D Structure	ModBase 3D Structure for P35354
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence of human PGHS-2. The exact sequence is proprietary.
Product Categories/Family for anti-PGHS-2 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PGHS-2 antibody	Western Blot (WB)
Application Notes for anti-PGHS-2 antibody	WB: 1:1000-1:2000
Related Product Information for anti-PGHS-2 antibody	MBS4505106 is an antibody targeting PGHS-2. Also known as Rabbit anti-PGHS-2 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-PGHS-2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PGHS-2 antibody
Western blot analysis of PGHS-2 expression in Hela (A) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGHS-2. It may not necessarily be applicable to this product.

NCBI GI #	4506265
NCBI GeneID	5743
NCBI Accession #	NP_000954.1
UniProt Primary Accession #	P35354
UniProt Secondary Accession #	Q16876; A8K802
UniProt Related Accession #	P35354
GenBank Nucleotide #	NM_000963.2
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
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Synonym Protein Names	Cyclooxygenase-2; COX-2; PHS II; Prostaglandin H2 synthase 2; PGH synthase 2; PGHS-2; Prostaglandin-endoperoxide synthase 2
UniProt Gene Name	PTGS2
UniProt Synonym Gene Names	COX2; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_HUMAN
NCBI Protein Information	prostaglandin G/H synthase 2; PHS II; PGH synthase 2; cyclooxygenase 2b; prostaglandin H2 synthase 2
NCBI Summary for PGHS-2	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. [provided by RefSeq, Feb 2009]

UniProt Comments for PGHS-2	COX-2: Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity. Homodimer. Belongs to the prostaglandin G/H synthase family. Protein type: Lipid Metabolism - arachidonic acid; EC 1.14.99.1; Oxidoreductase Chromosomal Location of Human Ortholog: 1q25.2-q25.3 Cellular Component: endoplasmic reticulum membrane; neuron projection; protein complex; cytoplasm; caveola; nucleus Molecular Function: prostaglandin-endoperoxide synthase activity; protein homodimerization activity; peroxidase activity; enzyme binding; arachidonate 15-lipoxygenase activity; metal ion binding; heme binding; lipid binding Biological Process: positive regulation of nitric oxide biosynthetic process; positive regulation of apoptosis; positive regulation of smooth muscle cell proliferation; response to lithium ion; response to glucocorticoid stimulus; positive regulation of NF-kappaB import into nucleus; response to lipopolysaccharide; decidualization; sensory perception of pain; prostaglandin biosynthetic process; negative regulation of synaptic transmission, dopaminergic; positive regulation of synaptic transmission, glutamatergic; bone mineralization; response to estradiol stimulus; negative regulation of cell cycle; negative regulation of cell proliferation; response to vitamin D; lipoxygenase pathway; nicotinamide metabolic process; negative regulation of smooth muscle contraction; regulation of blood pressure; arachidonic acid metabolic process; angiogenesis; positive regulation of smooth muscle contraction; inflammatory response; response to fructose stimulus; water-soluble vitamin metabolic process; positive regulation of prostaglandin biosynthetic process; response to drug; negative regulation of calcium ion transport; vitamin metabolic process; cyclooxygenase pathway; positive regulation of synaptic plasticity; learning; memory; prostaglandin metabolic process; hair cycle; response to manganese ion; ovulation; NAD metabolic process; regulation of inflammatory response; brown fat cell differentiation; positive regulation of fever; positive regulation of vasoconstriction; response to oxidative stress; cell motility; embryo implantation
Research Articles on PGHS-2	**1.** The cytoplasmic COX-2 expression were observed in 74.3% and 68.6% of cases respectively.
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