

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

Anti-PTGS2 / COX2 / COX-2 Antibody (C-Terminus) IHC-plus

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12379	PTGS2/COX2/COX-2 antibody was produced in Rabbit.	Human, Mouse, Rat, Bovine, Pig, Sheep	Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PTGS2 / COX2 / COX-2; Polyclonal Antibody; Anti-PTGS2 / COX2 / COX-2 Antibody (C-Terminus) IHC-plus; Rabbit Polyclonal to Human PTGS2 / COX2 / COX-2; Human PTGS2 / COX2 / COX-2; Cyclooxygenase-2; 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 / COX2 / COX-2 antibody

PRODUCT SPECIFICATIONS

Host	PTGS2/COX2/COX-2 antibody was produced in Rabbit.
Reactivity	Human, Mouse, Rat, Bovine, Pig, Sheep
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of PGHS-2 protein.
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, pH 7.3, 0.01% sodium azide, 30% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	604
Applicable Applications for anti-PTGS2 / COX2 / COX-2 antibody	IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Application Notes	IHC-Paraffin (1:100) ICC(1:100-1:500) Immunofluorescence Western Blot (1:500-1:1000) Optimal dilution to be determined by the researcher.
Immunogen species	PTGS2/COX2/COX-2 antibody was raised against Human.
Immunogen	PTGS2 / COX2 / COX-2 antibody was raised against kLH-conjugated synthetic peptide encompassing a sequence within the C-terminal region of human PGHS-2.
Antigen Type	Synthetic peptide
Note	During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial to dislodge any liquid in the container's cap prior to opening.
Warning	This reagent may contain sodium azide. The chemical, physical and toxicological properties of this material have not been thoroughly investigated. Standard laboratory Practices should be followed. Avoid skin and eye contact, inhalation, and ingestion. Sodium azide forms hydrazoic acid under acidic conditions and may react with lead or copper plumbing to form highly explosive metal azides. On disposal, flush with large volumes of water to prevent accumulation.
Epitope	C-Terminus

Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at -20°C. Aliquot to avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry-Paraffin)
Human Colon: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

Related Product Information for anti-PTGS2 / COX2 / COX-2 antibody	PTGS2 Antibody, COX-2 Antibody, Cyclooxygenase-2 Antibody, COX2 Antibody, Cyclooxygenase 2b Antibody, HCox-2 Antibody, GRIPGHS Antibody, PGH synthase 2 Antibody, PGHS-2 Antibody, PHS II Antibody, PHS-2 Antibody, Prostaglandin H2 synthase 2 Antibody, PGG/HS Antibody, Prostaglandin G/H synthase 2 Antibody Description: Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506265
NCBI GeneID	5743
NCBI Accession #	NP_000954.1
NCBI GenBank Nucleotide #	NM_000963.3
UniProt Accession #	P35354; Q16876; A8K802
NCBI Official Full Name	prostaglandin G/H synthase 2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2
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
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.