

Rabbit anti-Mouse COX-2 Polyclonal Antibody | anti-PTGS2 antibody

Anti-COX-2 Antibody, Rabbit Polyclonal

CATALOG # AAA255029	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry
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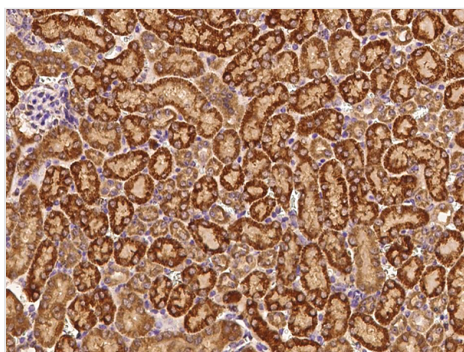
PRODUCT SYNONYMS

COX-2; Polyclonal Antibody; Anti-COX-2 Antibody; Rabbit Polyclonal; COX-2/PTGS2 Antibody; Rabbit PAb; Antigen Affinity Purified; prostaglandin-endoperoxide synthase 2; Anti-Cox-2 Antibody; Anti-COX2 Antibody; Anti-gripphs Antibody; Anti-PES-2 Antibody; Anti-PGHS-2 Antibody; Anti-Pghs2 Antibody; Anti-PHS II Antibody; Anti-PHS-2 Antibody; Anti-TIS10 Antibody; anti-PTGS2 antibody

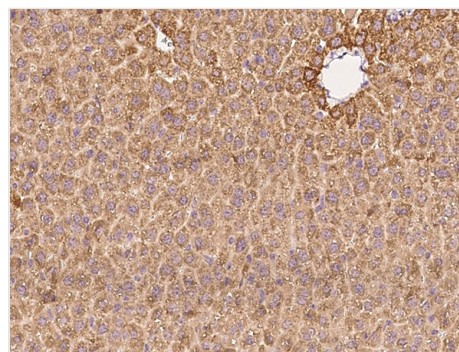
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse COX-2/PTGS2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PTGS2 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse COX-2/PTGS2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse COX-2/PTGS2, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES


IHC (Immunohistochemistry)

Immunochemical staining of mouse PTGS2 in mouse kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.


IHC (Immunohistochemistry)

Immunochemical staining of mouse PTGS2 in mouse liver with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-PTGS2 antibody	PTGS2, also known as COX-2, is s component of Prostaglandin-endoperoxide synthase (PTGS). 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. PTGS2 is overexpressed in many cancers. The overexpression of PTGS2 along with increased angiogenesis and GLUT-1 expression is significantly associated with gallbladder carcinomas. Furthermore the product of COX-2, PGH2 is converted by prostaglandin E2 synthase into PGE2, which in turn can stimulate cancer progression. Consequently inhibiting COX-2 may have benefit in the prevention and treatment of these types of cancer. PTGS2 is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. It mediates the formation of prostaglandins from arachidonate and may have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.
Product Categories/Family for anti-PTGS2 antibody	Neuroinflammation Cancer Drug Targets; IL17 signaling pathway
References	Picot, et al. (1994) The X-ray crystal structure of the membrane protein prostaglandin H2 synthase-1. Nature. 367(6460):243-9. Xie W, et al. (1991) Expression of a Mitogen-Responsive Gene Encoding Prostaglandin Synthase is Regulated by mRNA Splicing. Proceedings of the National Academy of Sciences. 88(7):2692-6. Hla T, et al. (1992) Human Cyclooxygenase-2 cDNA. Proceedings of the National Academy of Sciences. 89(16):7384-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31981525
NCBI GeneID	19225
NCBI Accession #	NP_035328.2
NCBI GenBank Nucleotide #	NM_011198.4
UniProt Accession #	Q05769; Q543K3
Molecular Weight	69,013 Da
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; PES-2; PHS-2; Pghs2; TIS10; PGHS-2; PHS II; 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	Cox-2; Cox2; Pghs-b; Tis10; COX-2; PGH synthase 2; PGHS-2

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.