

Product datasheet for **AP20194PU-S**

COX2 (PTGS2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of Cox2/PGHS2 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 74 kDa
Gene Name:	prostaglandin-endoperoxide synthase 2
Database Link:	Entrez Gene 5743 Human P35354



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Background:

Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many cellular and physiologic processes. Prostaglandin H₂ (PGH₂) is an intermediate in formation of the prostaglandins. Two prostaglandin synthases that catalyze the formation of PGH₂ from arachidonic acid (AA) are cyclooxygenase-1 and cyclooxygenase-2. Cyclooxygenase-2, or Cox-2, is efficiently induced in migratory cells responding to pro-inflammatory stimuli and is considered to be an important mediator of inflammation. An alternative form of the protein, designated Cox-1, is constitutively expressed in most tissues and is thought to serve in general “housekeeping” functions. Both enzymes are targets for the nonsteroidal therapeutic anti-inflammatory drugs, NSAIDs.

Synonyms:

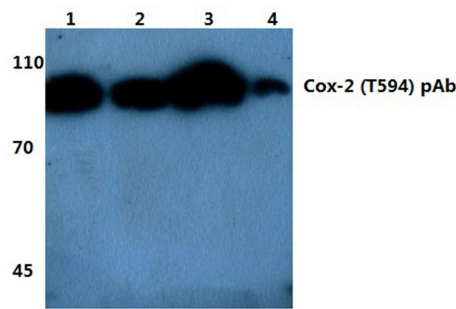
Cyclooxygenase-2, PTGS2, COX2, PHS II, PGH synthase 2, PGHS-2, PGHS2

Protein Families:

Druggable Genome

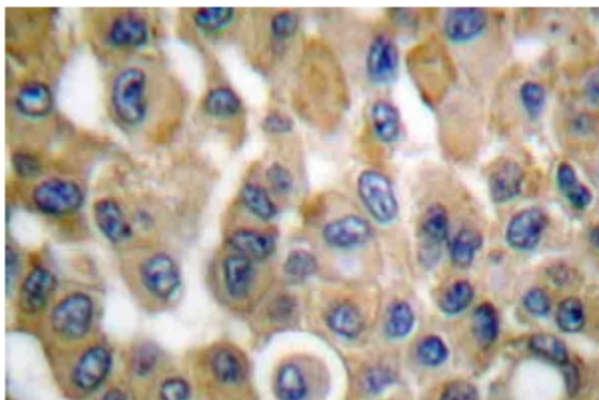
Protein Pathways:

Arachidonic acid metabolism, Pathways in cancer, Small cell lung cancer, VEGF signaling pathway

Product images:

Lane1: HeLa whole cell lysate treated with Lps
Lane2: Jurkat whole cell lysate treated with Lps
Lane3: Raw264.7 whole cell lysate treated with Lps
Lane4: Rat lung tissue lysate
Cox-2 (T594) pAb at 1:500 dilution

Western blot (WB) analysis of Cox2/PGHS2 (pThr594) antibody (Cat.-No.: [AP20194PU-N])



Immunohistochemistry (IHC) analyzes of Cox2/PGHS2 (pThr594) antibody (Cat.-No.: [AP20194PU-N]) in paraffin-embedded human breast carcinoma tissue.