

## Product datasheet for **AP20194PU-N**

### COX2 (PTGS2) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | IF, IHC, WB   |
| Recommended Dilution:   | <b>Western blot:</b> 1/500-1/1000.<br><b>Immunohistochemistry on paraffin sections</b> 1/50-1/200.<br><b>Immunofluorescence:</b> 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.<br>State: Aff - Purified<br>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.<br>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:          | <a href="#">Entrez Gene 5743 Human P35354</a>   |



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**Background:**

Prostaglandins are a diverse group of autocrine and paracrine hormones that mediate many cellular and physiologic processes. Prostaglandin H<sub>2</sub> (PGH<sub>2</sub>) is an intermediate in formation of the prostaglandins. Two prostaglandin synthases that catalyze the formation of PGH<sub>2</sub> 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:**

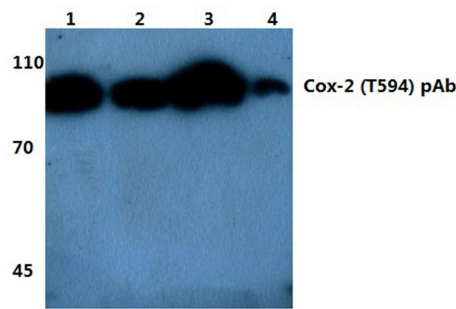
Cyclooxygenase-2, PTGS2, COX2, PHS II, PGH synthase 2, PGHS-2, PGHS2

**Protein Families:**

Druggable Genome

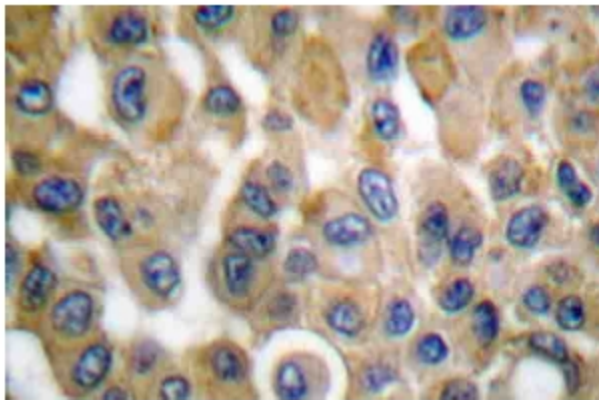
**Protein Pathways:**

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.