

Product datasheet for **AP23344PU-N**

COX2 (PTGS2) (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 0.1-0.5 µg/ml. Immunohistochemistry on Paraffin Sections: 1-2 µg/ml by heat antigen treatment.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminal of Human COX-2
Specificity:	This antibody detects Cyclooxygenase 2 (N-term). No cross reactivity with other proteins.
Formulation:	0.2mg Na ₂ HPO ₄ , 0.9mg NaCl State: Aff - Purified State: Lyophilized Ig fraction Stabilizer: 5mg BSA Preservative: 0.05mg Sodium Azide, 0.05 mg Thimerosal
Reconstitution Method:	Restore with 0.2 ml distilled water to a concentration of 500 µg/ml
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store 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.
Gene Name:	prostaglandin-endoperoxide synthase 2
Database Link:	Entrez Gene 19225 Mouse Entrez Gene 29527 Rat Entrez Gene 5743 Human P35354



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Background:

Cyclooxygenase (Cox) is the key enzyme in conversion of arachidonic acid to PGs, and two isoforms, Cox-1 and Cox-2, have been identified. Cox-2 gene encodes an inducible prostaglandin synthase enzyme that is overexpressed in adenocarcinomas and other tumors. Deletion of the murine Cox-2 gene in Min mice reduced the incidence of intestinal tumors, suggesting that it is required for tumorigenesis. This gene is localized to sites associated with retinal blood vessels, and plays an important role in blood vessel formation in the retina. And the glucocorticoid receptor suppression of COX-2 is also crucial for curtailing lethal immune activation, and suggest new therapeutic approaches for regulation of T-cell-mediated inflammatory diseases.

Synonyms:

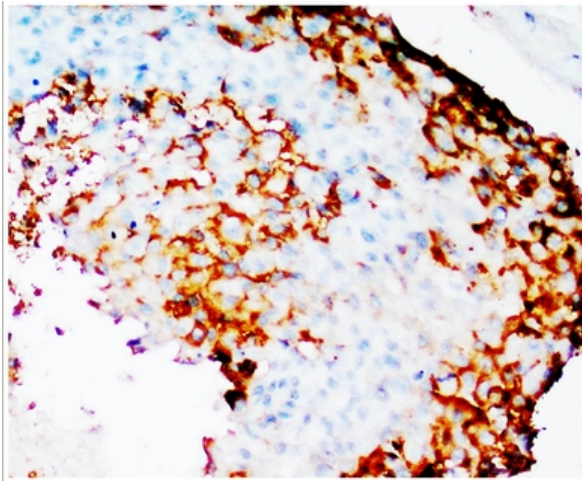
Cyclooxygenase-2, PTGS2, COX2, PHS II, PGH synthase 2, PGHS-2, PGHS2

Protein Families:

Druggable Genome

Protein Pathways:

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

Product images:

AP23344PU-N COX2 antibody staining of Human Mammary Cancer.