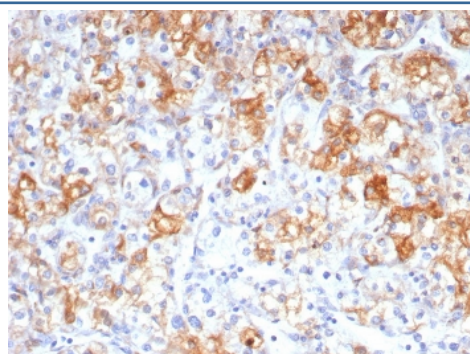


## COX2 Antibody / Cyclooxygenase 2 / PTGS2 [clone rCOX2/6996] (V4766)

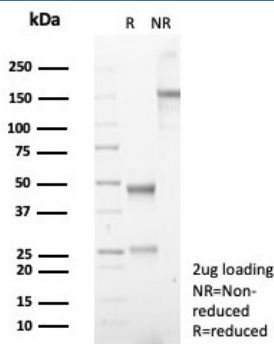
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V4766-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V4766-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug  |
| V4766SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                          | 100 ug |

[Bulk quote request](#)

|                           |   |
|---------------------------|---|
| <b>Availability</b>       | 1-3 business days                                       |
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Clonality</b>          | Monoclonal (mouse origin)                               |
| <b>Isotype</b>            | Mouse IgG1, kappa                                       |
| <b>Clone Name</b>         | rCOX2/6996  |
| <b>Purity</b>             | Protein A/G affinity                                    |
| <b>UniProt</b>            | P35354  |
| <b>Localization</b>       | Cytoplasm   |
| <b>Applications</b>       | Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| <b>Limitations</b>        | This COX2 antibody is available for research use only.  |



IHC staining of FFPE human renal cell carcinoma tissue with COX2 antibody (clone rCOX2/6996). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free COX2 antibody (clone rCOX2/6996) as confirmation of integrity and purity.

## Description

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 molecule in formation of the prostaglandins. Cyclooxygenase-1 (Cox-1) and cyclooxygenase-2 (Cox-2) are prostaglandin synthases that catalyze the formation of PGH<sub>2</sub> from arachidonic acid (AA). Cox-1 and Cox-2 are isozymes of prostaglandin-endoperoxidase synthase (PTGS). Cox-1 is constitutively expressed in most tissues and is thought to serve in general housekeeping functions. Cox-2 is efficiently induced in migratory cells responding to pro-inflammatory stimuli and is considered to be an important mediator of inflammation. Both enzymes are targets for the nonsteroidal therapeutic anti-inflammatory drugs, NSAIDs. COX2 expression is significantly increased in 85-90% of human colorectal adenocarcinomas whereas levels of COX-1 are not changed.

## Application Notes

Optimal dilution of the COX2 antibody should be determined by the researcher.

## Immunogen

A recombinant human COX2 protein fragment (within amino acids 504-604) was used as the immunogen for the COX2 antibody.

## Storage

Aliquot the COX2 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.