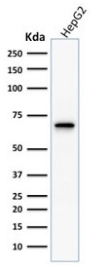
# COX2 Antibody / PTGS2 [clone COX2/1941] (V8038)

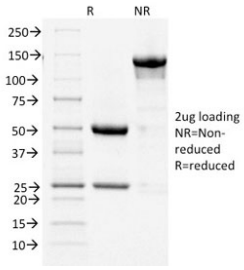
| Catalog No. | Formulation | Size |
|---|---|---|
| V8038-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8038-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8038SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2b, kappa |
| **Clone Name** | COX2/1941 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P35354 |
| **Applications** | ELISA (order BSA-free format for coating)<br>Western blot: 1-2ug/ml |
| **Limitations** | This COX2 antibody is available for research use only. |




Western blot testing of human HEPG2 cell lysate with COX2 antibody. Predicted molecular weight ~69 kDa.




SDS-PAGE analysis of purified, BSA-free COX2 antibody 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 H2 (PGH2) 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 PGH2 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 partial protein (amino acids 442-572) was used as the immunogen for the COX2 antibody.

## Storage

Store the COX2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).


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