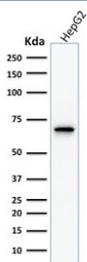


## COX2 Antibody / PTGS2 [clone COX2/1941] (V8038)

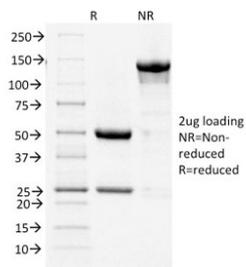
Catalog No.	Formulation	Size
V8038-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8038-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8038SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	COX2/1941
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P35354
<b>Applications</b>	ELISA (order BSA-free Format For Coating) : Western Blot : 1-2ug/ml
<b>Limitations</b>	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).