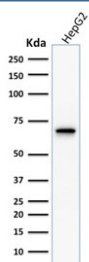


COX2 Antibody / PTGS2 [clone COX2/1941] (V8038)

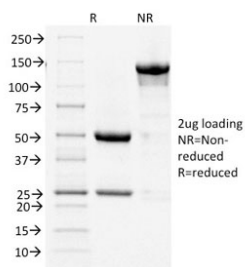
Catalog No.	Formulation	Size
V8038-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8038-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8038SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
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) : 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 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).