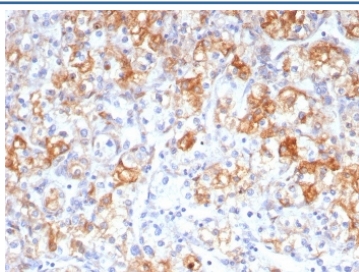


COX2 Antibody / Cyclooxygenase 2 / PTGS2 [clone rCOX2/6996] (V4766)

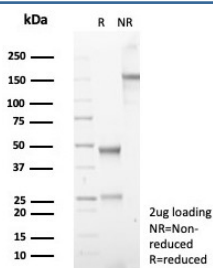
Catalog No.	Formulation	Size
V4766-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4766-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4766SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	rCOX2/6996
Purity	Protein A/G affinity
UniProt	P35354
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	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 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 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 -20oC or colder. Avoid repeated freeze-thaw cycles.