

Cyclooxygenase-2 (COX-2) Antibody

Mouse Monoclonal Antibody [Clone rCOX2/6996]

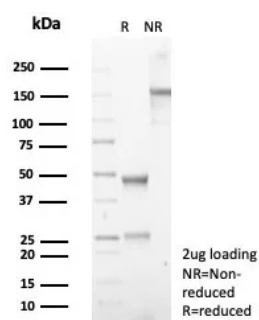
Catalog No	Format	Size
5743-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5743-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5743-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

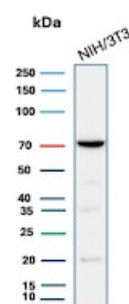
Product Details	
Clone	rCOX2/6996
Gene Name	PTGS2
Immunogen	Recombinant human COX2 protein fragment (around aa 504-604) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	70-72kDa
Cellular Localization	Cytoplasm.
Species Reactivity	Human
Positive Control	NIH/3T3, Human colon or lung carcinoma.

*Optimal dilution for a specific application should be determined.

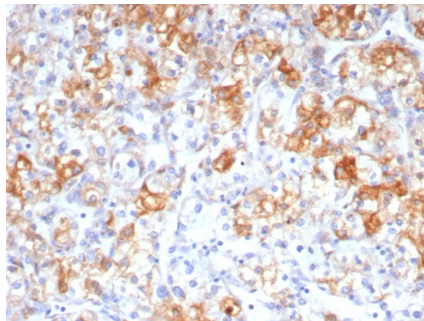
Product Images for Cyclooxygenase-2 (COX-2) Antibody



SDS-PAGE Analysis of Purified COX-2 Mouse Monoclonal Antibody (rCOX2/6996). Confirmation of Purity and Integrity of Antibody.



Western blot analysis of NIH/3T3 cell lysate using Cyclooxygenase-2 (COX-2) Recombinant Mouse Monoclonal Antibody (rCOX2/6996).



Formalin-fixed, paraffin-embedded human renal cell carcinoma stained with COX-2 Mouse Monoclonal Antibody (rCOX2/6996).
HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.

Specificity & Comments

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.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Angiogenesis, Cardiovascular, Colon Cancer, Cytokine Signaling, Immunology, Lung Cancer, Neuroscience