Recombinant Cycloxygenase-2 (COX-2) Antibody

Rabbit Monoclonal Antibody [Clone COX2/7803R]

Catalog No	Format	Size
5743-RBM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5743-RBM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5743-RBM7-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

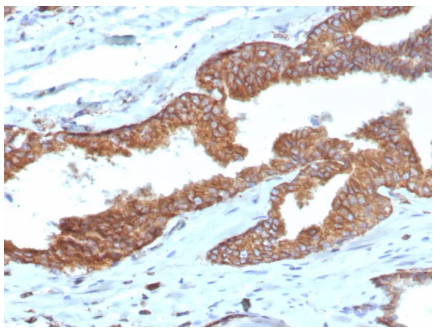
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

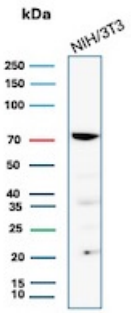
Clone	COX2/7803R
Gene Name	PTGS2
Immunogen	Recombinant fragment (around aa400-604) of human PTGS2 protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	70-72kDa
Cellular Localization	Cytoplasm. Cell surface.
Species Reactivity	Human
Positive Control	NIH/3T3, Human colon, Kidney or lung carcinoma tissue (IHC).

**Optimal dilution for a specific application should be determined.*

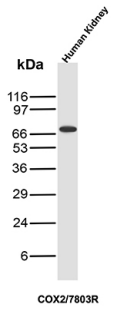
Product Images for Recombinant Cycloxygenase-2 (COX-2) Antibody



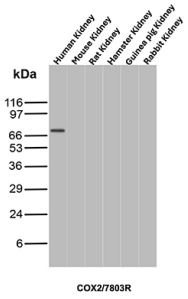
Formalin-fixed, paraffin-embedded human prostate stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/7803R). HIER: Tris/EDTA, pH9.0, 45min. 2: HRP-polymer, 30min. DAB, 5min.



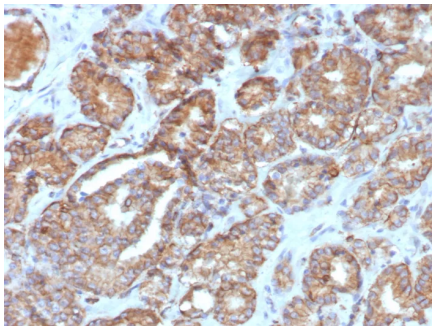
Western blot analysis of NIH/3T3 cell lysate using Cycloxygenase-2 (COX-2) Recombinant Rabbit Monoclonal Antibody (COX2/7803R).



Western blot analysis of Human Kidney tissue lysate using Cycloxygenase-2 (COX-2) Recombinant Rabbit Monoclonal Antibody (COX2/7803R).



Western blot analysis of Kidney tissue lysates of different species using Cycloxygenase-2 (COX-2) Recombinant Rabbit Monoclonal Antibody (COX2/7803R).



Formalin-fixed, paraffin-embedded human prostate stained with COX-2 Recombinant Rabbit Monoclonal Antibody (COX2/7803R). 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.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. 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

Limitations and Warranty