

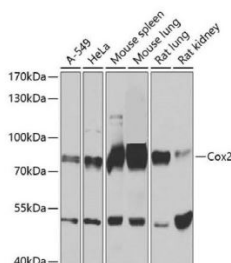
Cat. No: MAB-94444
Size: 100 ug
Clone: D5H5
Concentration: 1mg/ml
Host: Rb
Isotype: IgG
Reactivity: Hu, Ms, Rt
Applications: WB 1:1000-1:2000, IHC-P 1:100, IF-IP 1:100, Unmasking buffer: Citrate
Molecular Weight: 74 kDa

Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His108 of human Cox2 protein.

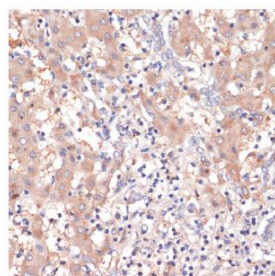
Background:

Cyclooxygenase1 (Cox1) and cyclooxygenase2 (Cox2), family members with 60% homology in humans, catalyze prostaglandin production from arachidonic acid (1,2). While Cox1 expression is constitutive in most tissues, Cox2 expression is induced by lipopolysaccharide (LPS) and peptidoglycan (PGN) (3). PGN activates Ras, leading to phosphorylation of Raf at Ser338 and Erk1/2 at Tyr204. The activation of MAP kinase signaling results in subsequent activation of IKK α/β , phosphorylation of I κ B α at Ser32/36, and NF- κ B activation. Finally, activation of the transcription factor NF- κ B is responsible for the induction of Cox2 expression (4). Investigators have shown that LPS and PGN induce the clinical manifestations of arthritis and bacterial infections, such as inflammation, fever, and septic shock (5). Research studies have indicated that Cox1 and Cox2 may also play a role in the neuropathology of Alzheimer's disease by potentiating γ -secretase activity and β -amyloid generation (6). Cox2 (D5H5) XP[®] Rabbit mAb recognizes endogenous levels of total Cox2 protein.

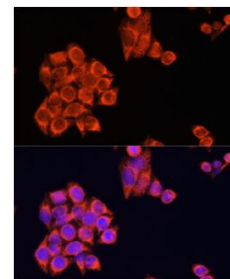
Form: Liquid
Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage: Store at -20°C. Avoid freeze/thaw cycles



Western blot analysis of extracts of various cell lines, using Cox2 antibody at 1:1000 dilution.
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
 Lysates/proteins: 25ug per lane. Blocking buffer: 3%

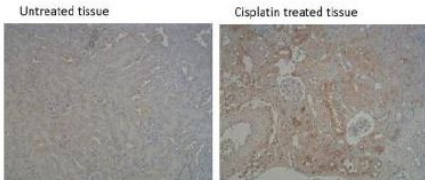


Immunohistochemistry of paraffin-embedded human liver cancer using Cox2 antibody at dilution of 1:200 (40x lens).



Immunofluorescence analysis of HeLa cells using Cox2 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

nonfat dry milk
in TBST.
Detection: ECL West Pico Plus.
Exposure time: 3s.



Application Immunohistochemistry(IHC)
Sample RAW264.7, Mouse kidney
Dilution 1:200
Incubation time 12h
Temperature 4 °C
Exposure unknow
Observed Band unknow kDa
Remarks Immunohistochemistry of
paraffin-embedded mouse kidney tissue
using ptgs2(cox-2)antibody at dilution of
1:100 (x100 lens).

References

References for Cox2 Polyclonal Antibody Product:

Cox2 Polyclonal Antibody

Journal:Journal of ethnopharmacology

Application:IHC

IF:2.980

Species:unknown

PMID:28238827

Title:Rhizoma Smilacis Glabrae inhibits pathogen-induced upper genital tract inflammation in rats through suppression of NF- κ B pathway

References for Cox2 Polyclonal Antibody

Product: Cox2 Polyclonal Antibody

Journal: Vascular Pharmacology

Application: WB

IF: 3.715

Species: Rat

PMID: 28797762

Title: Ceramide enhances COX-2 expression and VSMC contractile hyperreactivity via ER stress signal activation

References for Cox2 Polyclonal Antibody

Product: Cox2 Polyclonal Antibody

Journal: Molecular neurobiology

Application: WB

IF: 6.189

Species: Mouse

PMID: 27957686

Title:Curcumin Attenuates Colistin-Induced Neurotoxicity in N2a Cells via Anti-inflammatory Activity, Suppression of Oxidative Stress, and Apoptosis

References for Cox2 Polyclonal Antibody

Product:Cox2 Polyclonal Antibody

Journal:Journal of experimental & clinical cancer research : CR

Application:

WB, IHC

IF:6.21

Species:Mouse

PMID:30119635

Title:IL-33 facilitates proliferation of colorectal cancer dependent on COX2/PGE 2

For Research use only

IMMUNOLOGICAL SCIENCES

Web-site: www.immunologicalsciences.com - E-Mail: info@immunologicalsciences.com

References for Cox2 Polyclonal Antibody

Product:Cox2 Polyclonal Antibody

Journal:Oxidative Medicine and Cellular Longevity

Application:WB

IF:.93

Species:Mouse

PMID:30159118

Title: Anti-Inflammatory Effect of a Polyphenol-Enriched Fraction from *Acalypha wilkesiana* on Lipopolysaccharide-Stimulated RAW 264.7 Macrophages and Acetaminophen-Induced Liver Injury in Mice.

**For Research use only
IMMUNOLOGICAL SCIENCES**