COX2/Cyclooxygenase 2 Rabbit mAb

Catalog No: #48935

Package Size: #48935-1 50ul #48935-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

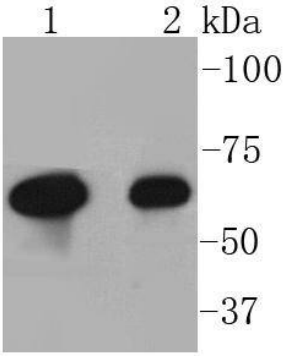
Description

Product Name	COX2/Cyclooxygenase 2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC56-06
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	COX 2 antibody COX-2 antibody COX2 antibody Cyclooxygenase 2 antibody Cyclooxygenase 2b antibody Cyclooxygenase antibody Cyclooxygenase-2 antibody Cyclooxygenase2 antibody EC 1.14.99.1 antibody fj02a10 antibody Glucocorticoid-regulated inflammatory cyclooxygenase antibody Glucocorticoid-regulated inflammatory Prostaglandin G/H synthase antibody GRIPGHS antibody hCox 2 antibody Macrophage activation-associated marker protein P71/73 antibody OTTHUMP00000033524 antibody PES-2 antibody PGG/HS antibody PGH synthase 2 antibody PGH2_HUMAN antibody PGHS 2 antibody PGHS-2 antibody PGHS2 antibody PHS 2 antibody PHS II antibody PHS2 antibody Prostaglandin endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) antibody Prostaglandin endoperoxide synthase 2 antibody Prostaglandin G/H synthase 2 antibody Prostaglandin G/H synthase 2 precursor antibody Prostaglandin G/H synthase and cyclooxygenase antibody Prostaglandin G/H synthase antibody Prostaglandin H2 synthase 2 antibody prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) antibody Prostaglandin-endoperoxide synthase 2 antibody PTGS2 antibody ptgs2a antibody TIS10 antibody TIS10 protein antibody unp1239 antibody wu:fj02a10 antibody
Accession No.	Swiss-Prot#:P35354
Calculated MW	72 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

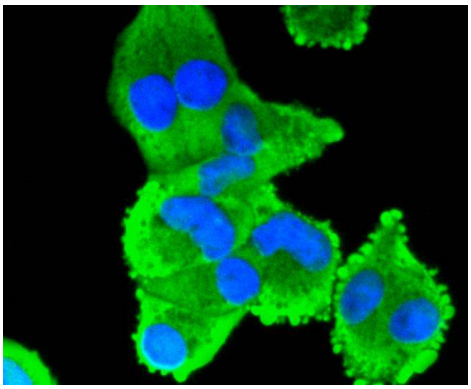
Application Details

WB: 1:1,000-5,000IHC: 1:100-1:5,000ICC: 1:50-1:200

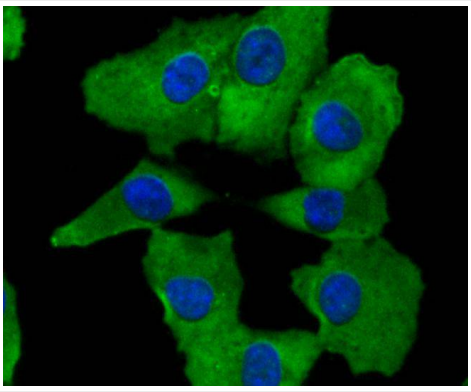
Images



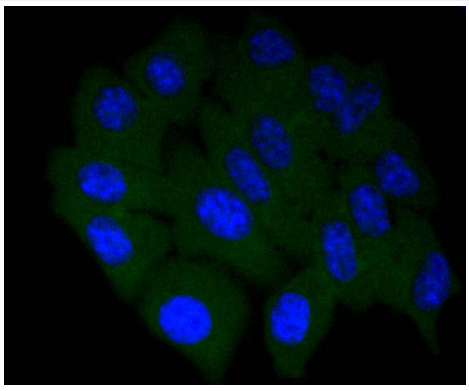
Western blot analysis of COX2 on different lysates using anti-COX2 antibody at 1/1,000 dilution. Positive control: Lane 1: A549 Lane 2: THP-1



ICC staining COX2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining COX2 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining COX2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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 oΩ½oΩ½housekeepingoΩ½oΩ½ 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.

References

1. Kaczocha M et al. Fatty acid binding protein deletion suppresses inflammatory pain through endocannabinoid/N-acylethanolamine-dependent mechanisms. Mol Pain 11:52 (2015). 2. Wang J et al. Mechanism of QSYQ on anti-apoptosis mediated by different subtypes of cyclooxygenase in AMI induced heart failure rats. BMC Complement Altern Med 15:352 (2015).

Published Papers

Fu Bingxin, Guo Manman, Jia Yuanyuan, Han Xiaoyu, Bi Beibei, Fang Lanlan, Cheng Jung-Chien el at., CYR61 and CTGF mediate the stimulatory effect of amphiregulin on COX-2 expression in human granulosa-lutein cells, Molecular and cellular endocrinology, (2025)

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HUANG Haiyang el at., Fuzheng Xuanfei Huashi prescription suppresses inflammation in lipopolysaccharide-induced lung injury in mice via toll-like recptor 4/nuclearB β ¦, Journal of Traditional Chinese Medicine, (2025)

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