

## PGHS-2 monoclonal antibody

Catalog: MB66973

Host: Mouse

Reactivity: Human

### BackGround:

Cyclooxygenase1 (Cox1) and cyclooxygenase2 (Cox2), family members with 60% homology in humans, catalyze prostaglandin production from arachidonic acid. While Cox1 expression is constitutive in most tissues, Cox2 expression is induced by lipopolysaccharide (LPS) and peptidoglycan (PGN). 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 $\alpha$ / $\beta$ , phosphorylation of I $\kappa$ B $\alpha$  at Ser32/36, and NF- $\kappa$ B activation. Finally, activation of the transcription factor NF- $\kappa$ B is responsible for the induction of Cox2 expression. Investigators have shown that LPS and PGN induce the clinical manifestations of arthritis and bacterial infections, such as inflammation, fever, and septic shock. Research studies have indicated that Cox1 and Cox2 may also play a role in the neuropathology of Alzheimer's disease by potentiating  $\gamma$ -secretase activity and  $\beta$ -amyloid generation.

### Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 74 kDa

### Swiss-Prot:

P35354

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/500 - 1/1000)

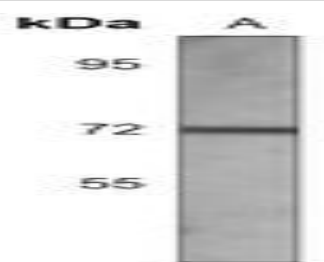
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of PGHS-2 protein.

### DATA:



Western blot analysis of PGHS-2 expression in U87MG (A) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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