

## PGHS-2 monoclonal antibody

Catalog: MB66226

Host: Mouse

Reactivity: Human

### Background:

The conversion of arachidonate to prostaglandin H<sub>2</sub> is a 2 step reaction: a cyclooxygenase (COX) reaction which converts arachidonate to prostaglandin G<sub>2</sub> (PGG<sub>2</sub>) and a peroxidase reaction in which PGG<sub>2</sub> is reduced to prostaglandin H<sub>2</sub> (PGH<sub>2</sub>). The cyclooxygenase reaction occurs in a hydrophobic channel in the core of the enzyme. The peroxidase reaction occurs at a heme-containing active site located near the protein surface. The nonsteroidal anti-inflammatory drugs (NSAIDs) binding site corresponds to the cyclooxygenase active site.

Conversion of arachidonate to prostaglandin H<sub>2</sub> is mediated by 2 different isozymes: the constitutive PTGS1 and the inducible PTGS2. PTGS1 is expressed constitutively and generally produces prostanoids acutely in response to hormonal stimuli to fine-tune physiological processes requiring instantaneous, continuous regulation (e.g. hemostasis). PTGS2 is inducible and typically produces prostanoids that mediate responses to physiological stresses such as infection and inflammation.

### Product:

Mouse IgG. Liquid in PBS containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.

### Molecular Weight:

~ 68 kDa

### Swiss-Prot:

P35354

### Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

IHC (1/100 - 1/300)

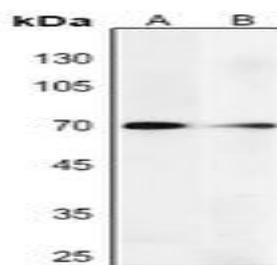
### Storage&Stability:

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

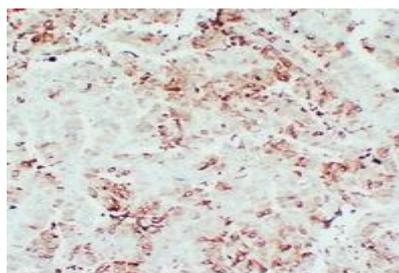
### Specificity:

Recognizes endogenous levels of PGHS-2 protein.

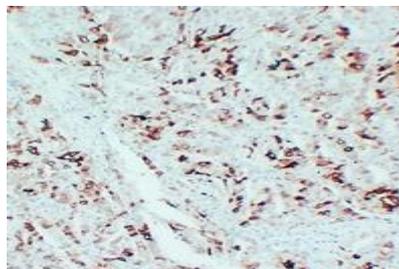
### DATA:



Western blot analysis of PGHS-2 expression in Hela (A), A549 (B) whole cell lysates.



Immunohistochemical analysis of PGHS-2 staining in human colon carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151



## PRODUCT DATA SHEET

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**Note:**

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

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