

## P4HB monoclonal antibody

Catalog: MB23295

Host: Mouse

Reactivity: Human

### BackGround:

This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

57.1kDa

### Swiss-Prot:

P07237

### Purification&Purity:

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

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 IF:1/200 - 1/1000  
FC:1/200 - 1/400

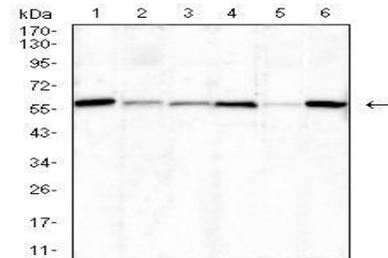
### Storage&Stability:

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

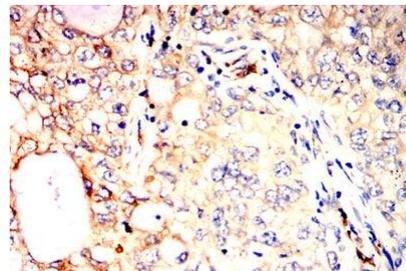
### Isotype:

Mouse IgG2a

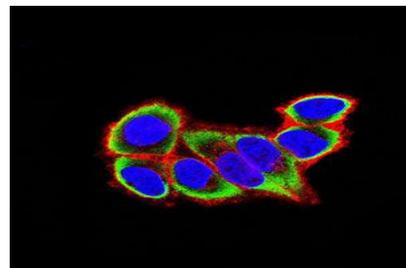
### DATA:



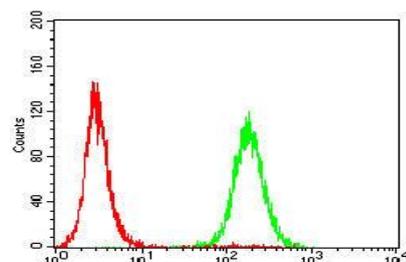
Western blot analysis using P4HB mouse mAb against HeLa (1), PANC-1 (2), MCF-7 (3), THP-1 (4), SW620 (5) and HepG2 (6) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using P4HB mouse mAb with DAB staining.



Immunofluorescence analysis of HeLa cells using P4HB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

Flow cytometric analysis of HepG2 cells using P4HB mouse mAb  
(green) and negative control (red).

**Note:**

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

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