

**PHB Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant PHB.****Catalog # AT3292a****Specification**

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**PHB Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC, IF, E
Primary Accession	<a href="#">P35232</a>
Other Accession	<a href="#">BC013401</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a kappa
Calculated MW	29804

**PHB Antibody (monoclonal) (M01) - Additional Information****Gene ID** 5245**Other Names**

Prohibitin, PHB

**Target/Specificity**

PHB (AAH13401, 1 a.a. ~ 272 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

PHB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

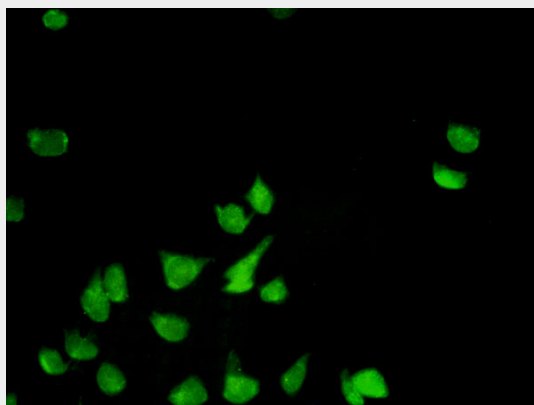
**PHB Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

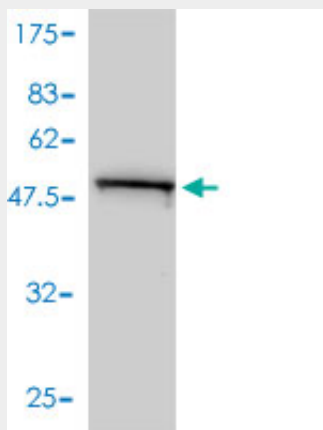
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

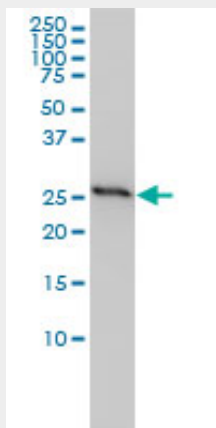
#### PHB Antibody (monoclonal) (M01) - Images



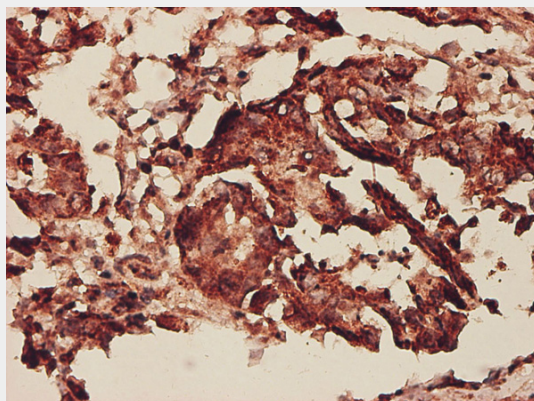
Immunofluorescence of monoclonal antibody to PHB on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]



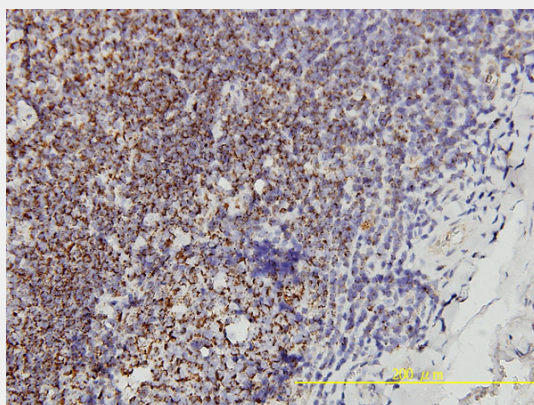
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (55.66 KDa) .



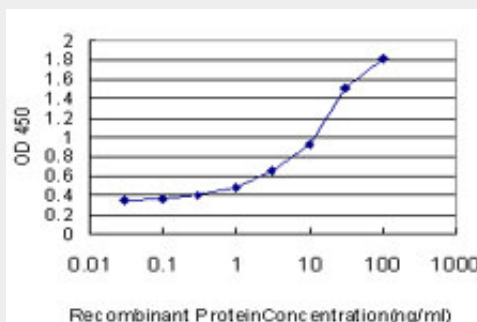
PHB monoclonal antibody (M01), clone 3F4-2B2 Western Blot analysis of PHB expression in Hela (Cat # AT3292a )



Immunoperoxidase of monoclonal antibody to PHB on formalin-fixed paraffin-embedded human colon adenocarcinoma. [antibody concentration 5 ug/ml]



Immunoperoxidase of monoclonal antibody to PHB on formalin-fixed paraffin-embedded human tonsil tissue.[antibody concentration 5 ug/ml]



Detection limit for recombinant GST tagged PHB is approximately 0.03ng/ml as a capture antibody.

### PHB Antibody (monoclonal) (M01) - Background

Prohibitin is an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA.

**PHB Antibody (monoclonal) (M01) - References**

1. Gonad differential proteins revealed with proteomics in oyster (*Saccostrea cucullata*) using alga as food contaminated with cadmium. Zhu B, Gao KS, Wang KJ, Ke CH, Huang HQ. Chemosphere. 2012 Jan 7. [Epub ahead of print]