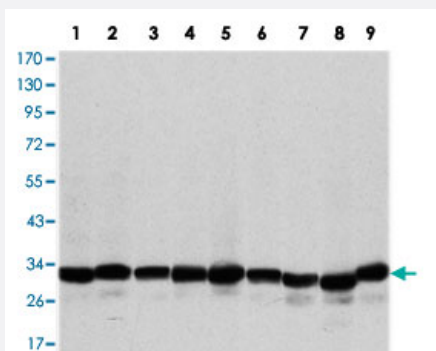


# PHB monoclonal antibody, clone 5H7

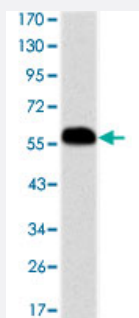
Catalog # MAB10296 Size 100 uL

## Applications



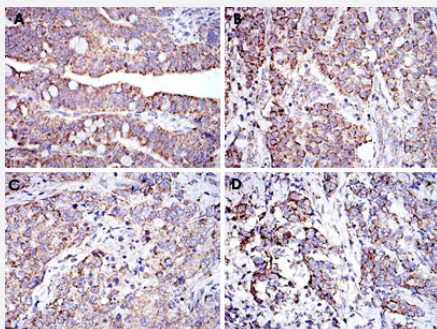
### Western Blot (Cell lysate)

Western blot analysis using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) against A-431 (1), MCF-7 (2), Jurkat (3), HeLa (4), HepG2 (5), A-549 (6), NIH/3T3 (7), COS-7 (8) and PC-12 (9) cell lysate.



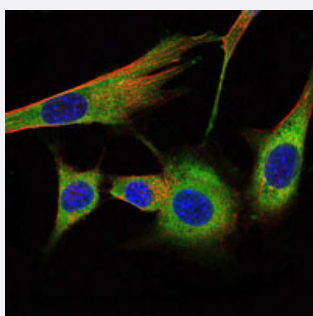
### Western Blot (Recombinant protein)

Western blot analysis using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) against recombinant human PHB protein.



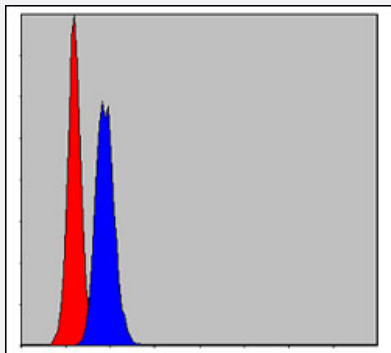
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human rectum cancer tissue (A), liver cancer tissue (B), lung cancer tissue (C) and stomach cancer tissue (D) using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) with DAB staining.



### Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



## Flow Cytometry

Flow cytometric analysis of MCF-7 cells using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) (blue) and negative control (red).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against recombinant PHB.
<b>Immunogen</b>	Recombinant protein corresponding to human PHB.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	30
<b>Reactivity</b>	Human, Monkey, Mouse, Rat
<b>Form</b>	Liquid
<b>Isotype</b>	IgG1
<b>Recommend Usage</b>	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In ascites (0.03% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) against A-431 (1), MCF-7 (2), Jurkat (3), HeLa (4), HepG2 (5), A-549 (6), NIH/3T3 (7), COS-7 (8) and PC-12 (9) cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) against recombinant human PHB protein.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human rectum cancer tissue (A), liver cancer tissue (B), lung cancer tissue (C) and stomach cancer tissue (D) using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) with DAB staining.

- Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of MCF-7 cells using PHB monoclonal antibody, clone 5H7 (Cat # MAB10296) (blue) and negative control (red).

## Gene Info — PHB

**Entrez GeneID** [5245](#)

**Gene Name** PHB

**Gene Alias** PHB1

**Gene Description** prohibitin

**Omim ID** [176705](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary**

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. [provided by RefSeq]

**Other Designations** -

## Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)