

Product Name: PHB Mouse Monoclonal Antibody**Catalog #: AMM81036**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,ELISA,FC
Reactivity	Human,Mouse,Rat,Monkey
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	30kDa

Antigen Information

Gene Name	PHB
Alternative Names	PHB1
Gene ID	5245.0
SwissProt ID	P35232
Immunogen	Purified recombinant fragment of human PHB expressed in E. Coli.

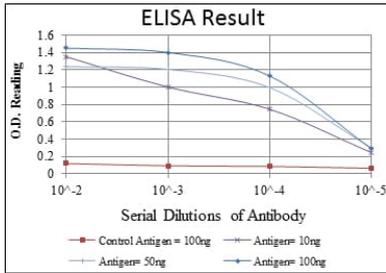
Background

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

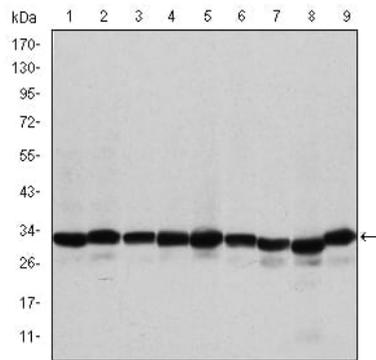
proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA.

Research Area

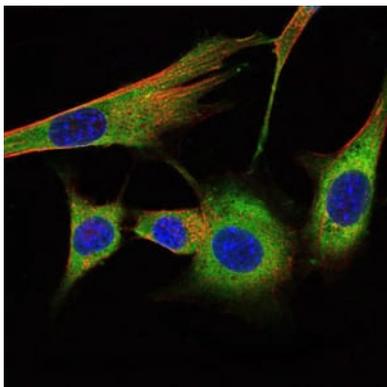
Image Data



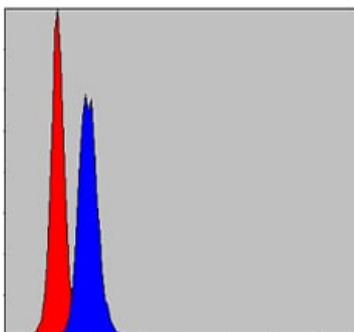
Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



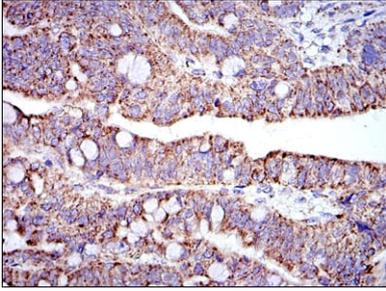
Western blot analysis using PHB mouse mAb against A431 (1), MCF-7 (2), Jurkat (3), HeLa (4), HepG2 (5), A549 (6), NIH/3T3 (7), Cos7 (8) and PC-12 (9) cell lysate.



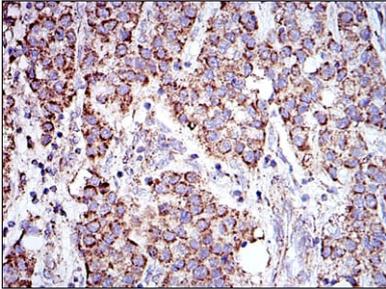
Immunofluorescence analysis of NIH/3T3 cells using PHB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



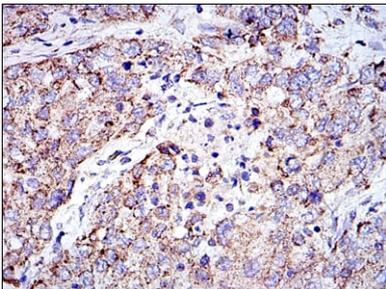
Flow cytometric analysis of MCF-7 cells using PHB mouse mAb (blue) and negative control (red).



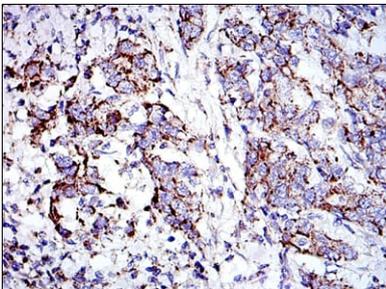
Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using PHB mouse mAb with DAB staining.



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



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



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