

Rabbit PHB Polyclonal Antibody | anti-PHB antibody

PHB Antibody

CATALOG # AAA167954	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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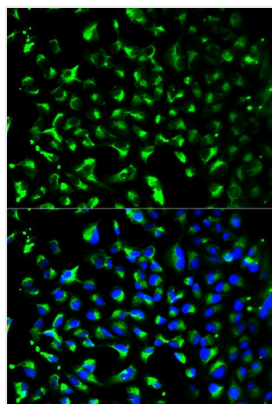
PRODUCT SYNONYMS

PHB; Polyclonal Antibody; PHB Antibody; PHB1; anti-PHB antibody

PRODUCT SPECIFICATIONS

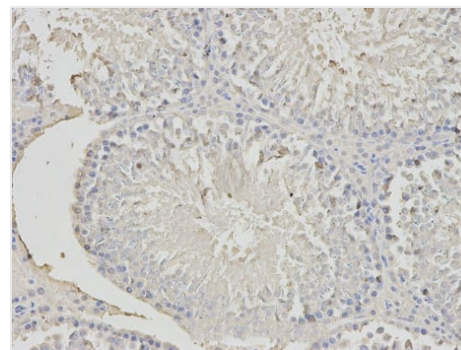
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	272
Applicable Applications for anti-PHB antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human PHB
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-18198 / sc-18196 / sc-28259
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

IMAGES



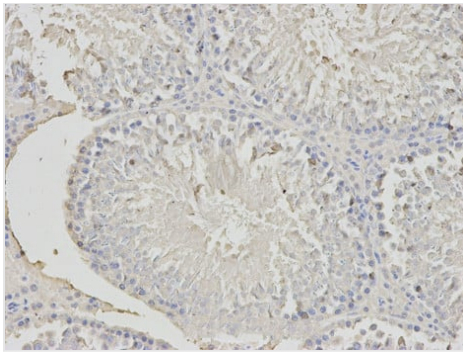
IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using PHB antibody. Blue: DAPI for nuclear staining.



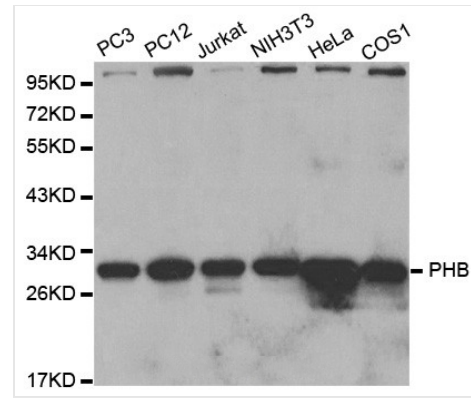
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat testis using PHB antibody at dilution of 1:200 (200x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat spleen using PHB antibody at dilution of 1:200 (400x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PHB antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PHB antibody

The prohibitins, called PHB1 and PHB2, are highly conserved proteins that are present in multiple compartments in eukaryotic cells. PHB1 is 30kDa tumor suppressor protein involved in cell cycle control (1). PHB1 has been found in mitochondria, the nucleus and the plasma membrane, as well as extracellularly in circulation (2). In mitochondria prohibitins mainly exist as membrane-bound ring complexes and function as chaperones maintaining mitochondrial protein stability during protein synthesis and transportation (3, 4). In the nucleus prohibitins interact with transcription factors such as Rb and p53 to regulate target gene transcription (2, 5). Extracellular prohibitin can bind and activate C3 to enhance complement activation (6).

NCBI AND UNIPROT INFORMATION

NCBI GI #	49456373
NCBI GeneID	5245
UniProt Accession #	Q6FHP5 ; P35232
Molecular Weight	29,832 Da
NCBI Official Full Name	PHB, partial
NCBI Official Synonym Full Names	prohibitin
NCBI Official Symbol	PHB
NCBI Official Synonym Symbols	PHB1; HEL-215; HEL-S-54e
NCBI Protein Information	prohibitin; epididymis luminal protein 215; epididymis secretory sperm binding protein Li 54e
UniProt Protein Name	PHB protein
UniProt Gene Name	PHB
UniProt Entry Name	Q6FHP5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phb-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/167954>