

Rabbit anti-Human PHB/Prohibitin Polyclonal Antibody | anti-PHB antibody

Anti-PHB/Prohibitin Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256111	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PHB/Prohibitin; Polyclonal Antibody; Anti-PHB/Prohibitin Antibody; Rabbit Polyclonal; PHB/Prohibitin Antibody; Rabbit PAb; Antigen Affinity Purified; prohibitin; Anti-HEL-215 Antibody; Anti-HEL-S-54e Antibody; Anti-PHB1 Antibody; anti-PHB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PHB/Prohibitin
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-PHB antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human PHB/Prohibitin fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human PHB/Prohibitin fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

PHB was immunoprecipitated using: Lane A: 0.5 mg HEK-293 Whole Cell Lysate 4 uL anti-PHB rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-PHB rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 27 kDa. Observed band size: 27 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of PHB in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human PHB polyclonal antibody (dilution ratio 1:100) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human PHB in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-PHB rabbit polyclonal antibody at 1:500 dilution Lane A: HEK-293 Whole Cell Lysate Lane B: Jurkat Whole Cell Lysate Lane C: HepG2 Whole Cell Lysate Lane D: U-87 MG Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 30 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-PHB antibody

Prohibitin (PHB) is overtly conserved evolutionarily and ubiquitously expressed protein with pleiotropic functions in diverse cellular compartments. PHB is a ubiquitous protein that is mainly localized in the inner mitochondrial membrane and exerts various mitochondrial functions. PHB may be a substrate of poly-ubiquitin to regulate the ubiquitination of mitochondria and even subsequent elimination during *P. esculenta* spermiogenesis, and it has a potential role in guaranteeing the maternal inheritance of mitochondria. PHB might play important roles during spermatogenesis and oogenesis by regulating mitochondrial activities. There are several studies reported to understand and decipher PHB's role in diseases and/or cancers of ovary, lung, stomach, thyroid, liver, blood, prostate, gastric, esophagus, glioma, breast, bladder, etc. where PHB is shown to act through mechanisms by acting as an oncogene, tumor suppressor, antioxidant, antiapoptotic, in angiogenesis, autophagy, etc.

References

Qiu X, et al. (2020) Characterization of phb in the gonadal development of the swimming crab *portunus trituberculatus*. *Comp Biochem Physiol B Biochem Mol Biol* 240 110338. Hou CC, et al. (2018) The expression pattern and potential functions of phb in the spermiogenesis of *phascolosoma esculenta*. *Gene* 652 25-38. Chowdhury D, et al. (2017) Phb in cardiovascular and other diseases: Present knowledge and implications. *Curr Drug Targets* 18 (16): 1836-1851.

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-prohibitin-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256111>