

Rabbit REA/PHB2 Polyclonal Antibody | anti-PHB2 antibody

Anti-REA/PHB2 Antibody, Rabbit Polyclonal

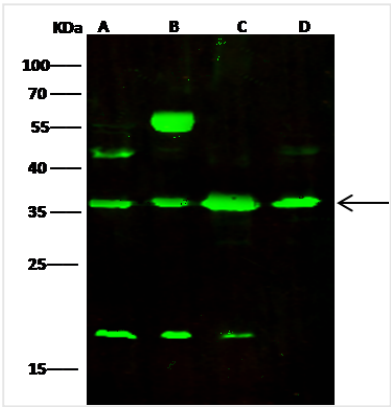
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254505	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

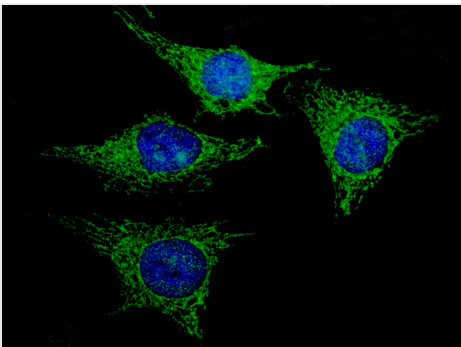
REA/PHB2; Polyclonal Antibody; Anti-REA/PHB2 Antibody; Rabbit Polyclonal; PHB2 Antibody; Rabbit PAb; Antigen Affinity Purified; prohibitin 2; Anti-BAP Antibody; Anti-Bap37 Antibody; Anti-BCAP37 Antibody; Anti-p22 Antibody; Anti-PNAS-141 Antibody; Anti-REA Antibody; anti-PHB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human REA/PHB2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-PHB2 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human PHB2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human PHB2, 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. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-PHB2 rabbit polyclonal antibody at 1:500 dilutionLane A: HeLa Whole Cell LysateLane B: MCF7 Whole Cell LysateLane C: NCI-H1299 Whole Cell LysateLane D: NIH-3T3 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:37 kDaObserved band size:37 kDa(We are unsure as to the identity of these extra bands.



IF (Immunofluorescence)
Immunofluorescence staining of PHB2 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human PHB2 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-PHB2 antibody	Prohibitin2 (PHB2) is a ubiquitous, evolutionarily strongly conserved protein. It is one of the components of the prohibitin complex, which comprises two highly homologous subunits, PHB1 and PHB2. Prohibitin 1 (PHB1) and prohibitin 2 (PHB2) are scaffold proteins that promote mitochondria homeostasis and consequently cell survival. PHB2 is a member of the SFPH trans-membrane family proteins and is present in various cellular compartments including the nucleus and mitochondria. Recent studies have identified PHB2 as a multifunctional protein that controls cell proliferation, apoptosis, cristae morphogenesis, and the functional integrity of mitochondria. PHB2 is an inner mitochondrial membrane protein that participates in parkin-induced mitophagy. PHB2 has multiple functions, such as transcriptional regulation and cell viability and development.
References	Zhang H, et al. (2020) Prohibitin 2/phb2 in parkin-mediated mitophagy: A potential therapeutic target for non-small cell lung carcinoma. Med Sci Monit 26 e923227.Yan C, et al. (2020) Phb2 (prohibitin 2) promotes pink1-prkn/parkin-dependent mitophagy by the parl-pgam5-pink1 axis. Autophagy 16 (3): 419-434.Xu T, et al. (2014) Expression of phb2 in rat brain cortex following traumatic brain injury. Int J Mol Sci 15 (2): 3299-3318.Takata H, et al. (2007) Phb2 protects sister-chromatid cohesion in mitosis. Curr Biol 17 (15): 1356-1361.

NCBI AND UNIPROT INFORMATION

NCBI GI #	74752151
NCBI GeneID	11331
UniProt Accession #	Q99623; Q2YDA4; Q7KYU3; Q92978; B4DP75
Molecular Weight	299
NCBI Official Full Name	Prohibitin-2
NCBI Official Synonym Full Names	prohibitin 2
NCBI Official Symbol	PHB2
NCBI Official Synonym Symbols	BAP; REA; p22; Bap37; BCAP37; PNAS-141
NCBI Protein Information	prohibitin-2; PHB2; D-prohibitin; B-cell associated protein; repressor of estrogen receptor activity; B-cell receptor-associated protein BAP37
UniProt Protein Name	Prohibitin-2
UniProt Gene Name	PHB2

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/rea-phb2-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/254505>