

REA (PHB2) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7270a

Product Information

Application WB, IHC-P, E Primary Accession Q99623

Other Accession <u>Q5XIH7</u>, <u>Q35129</u>, <u>Q5ZMN3</u>, <u>Q2HI97</u>, <u>NP 009204</u>

Reactivity Human

Predicted Bovine, Chicken, Mouse, Rat

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB10629Calculated MW33296Antigen Region66-95

Additional Information

Gene ID 11331

Other Names Prohibitin-2, B-cell receptor-associated protein BAP37, D-prohibitin, Repressor

of estrogen receptor activity, PHB2 {ECO:0000312 | EMBL:AAH147661,

ECO:0000312 | HGNC:HGNC:30306}

Target/SpecificityThis REA (PHB2) antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 66-95 amino acids from the N-terminal

region of human REA (PHB2).

Dilution WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions REA (PHB2) Antibody (N-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name PHB2 {ECO:0000312|EMBL:AAH14766.1, ECO:0000312|HGNC:HGNC:30306}

Function Protein with pleiotropic attributes mediated in a cell- compartment- and

tissue-specific manner, which include the plasma membrane-associated cell signaling functions, mitochondrial chaperone, and transcriptional co-regulator of transcription factors and sex steroid hormones in the nucleus.

Cellular Location Mitochondrion inner membrane. Cytoplasm. Nucleus. Cell membrane

Note=Localizes within both nucleus and cytoplasm in proliferative primary myoblasts and mostly within the nucleus of differentiated primary myoblasts.

[Isoform 2]: Mitochondrion inner membrane

Tissue Location Expressed in myoblasts.

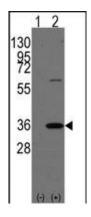
Background

PHB2 acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. This protein functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. It competes with NCOA1 for modulation of ER transcriptional activity. It is probably involved in regulating mitochondrial respiration activity and in aging.

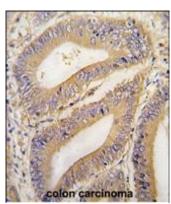
References

Takata, H., Curr. Biol. 17 (15), 1356-1361 (2007) Kasashima, K., J. Biol. Chem. 281 (47), 36401-36410 (2006)

Images



Western blot analysis of PHB2 (arrow) using rabbit polyclonal PHB2 Antibody (Human C-term) (Cat.#AP7270a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PHB2 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with PHB2 Antibody (N-term) (Cat.#AP7270a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.