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PHB2 Antibody (Y128)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7270d

Product Information

Application	WB, IHC-P, E
Primary Accession	Q99623
Other Accession	Q5XIH7, O35129, Q5ZMN3, Q2HJ97, NP_009204
Reactivity	Human, Mouse
Predicted	Bovine, Chicken, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15314
Calculated MW	33296
Antigen Region	106-134

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/Specificity	This PHB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 106-134 amino acids from human 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	PHB2 Antibody (Y128) 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.

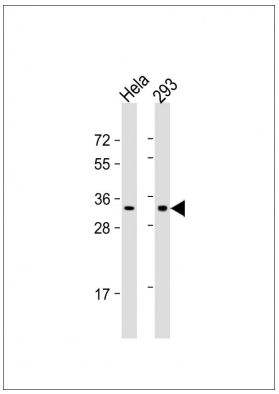
Background

PHB2 acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. It 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 and is probably involved in regulating mitochondrial respiration activity and in aging.

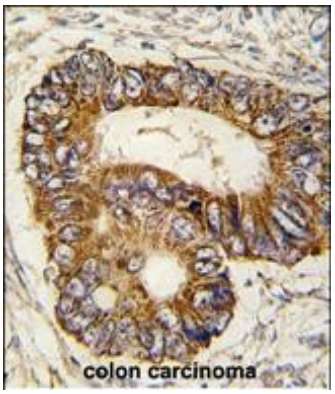
References

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

Images



All lanes : Anti-Phospho-PHB2-Y128. ctrl at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: 293 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with PHB2 Antibody (Y128) (Cat.#AP7270d), 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.