10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

REA (PHB2) Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7270b

Specification

REA (PHB2) Antibody (C-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	Q99623
Other Accession	Q5XIH7, O35129, Q2HJ97, NP_009204
Reactivity	**Human**
Predicted	**Bovine, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**33296**
Antigen Region	**197-226**

REA (PHB2) Antibody (C-term) - 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 REA (PHB2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-226 amino acids from the C-terminal region of human REA (PHB2).

Dilution
IHC-P~~1:10~50
WB~~1:1000
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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

REA (PHB2) Antibody (C-term) - Protein Information

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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

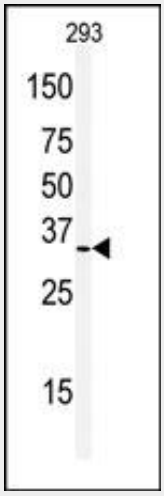
Tissue Location
Expressed in myoblasts.

REA (PHB2) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

REA (PHB2) Antibody (C-term) - Images



Western blot analysis of anti-PHB2 Antibody (C-term) (Cat. #AP7270b) in 293 cell line lysates (35ug/lane). PHB2(arrow) was detected using the purified Pab.

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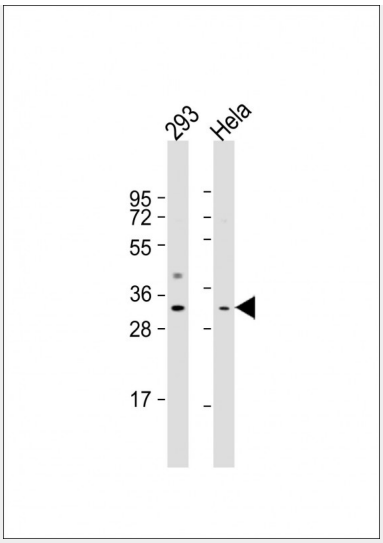
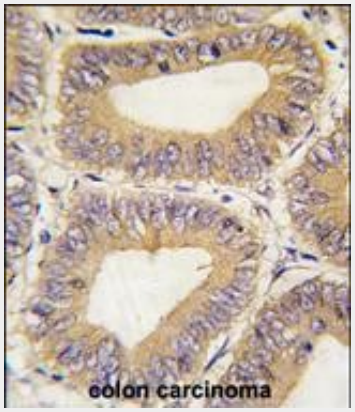


All lanes : Anti-PHB2 (Human C-term) at 1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with PHB2 Antibody (C-term) (Cat.#AP7270b), 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.

REA (PHB2) Antibody (C-term) - Background

Acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. Functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. Competes with NCOA1 for modulation of ER transcriptional activity. Probably involved in regulating mitochondrial respiration activity and in aging.

REA (PHB2) Antibody (C-term) - References

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