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PHB Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM2247b

Product Information

Application	WB, IHC-P, E
Primary Accession	P35232
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Names	1215CT487.109.106
Calculated MW	29804
Antigen Region	1-205

Additional Information

Gene ID	5245
Other Names	Prohibitin, PHB
Target/Specificity	This antibody is generated from a mice immunized with a recombinant protein between 1-205 amino acids from human.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	PHB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PHB1 {ECO:0000303|PubMed:28017329, ECO:0000312|HGNC:HGNC:8912}
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 in the nucleus (PubMed:11302691, PubMed:20959514, PubMed:28017329, PubMed:31522117). Plays a role in

	adipose tissue and glucose homeostasis in a sex-specific manner (By similarity). Contributes to pulmonary vascular remodeling by accelerating proliferation of pulmonary arterial smooth muscle cells (By similarity).
Cellular Location	Mitochondrion inner membrane. Nucleus. Cytoplasm. Cell membrane
Tissue Location	Widely expressed in different tissues.

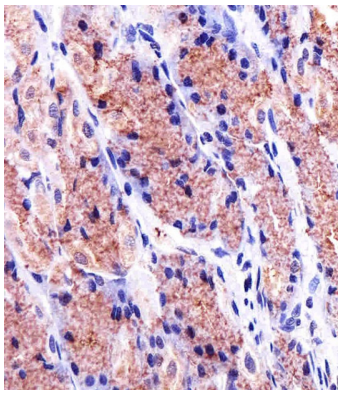
Background

Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging.

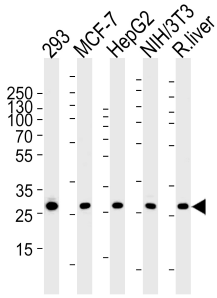
References

Sato T.,et al.Cancer Res. 52:1643-1646(1992).
Sato T.,et al.Genomics 17:762-764(1993).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Bienvenut W.V.,et al.Submitted (MAR-2005) to UniProtKB.
Lubec G.,et al.Submitted (DEC-2008) to UniProtKB.

Images



Immunohistochemical analysis of paraffin-embedded H. stomach section using PHB Antibody(Cat#AM2247b). AM2247b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



Western blot analysis of lysates from 293,MCF-7,HepG2,mouse NIH/3T3 cell line and rat liver tissue (from left to right),using USF1 Antibody (Center) (Cat. #AM2247b).AM2247b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody.Lysates at 35µg per lane.

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