

Recombinant Anti-Prohibitin Rabbit mAb

Catalog # AP94931

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P35232
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	29804

Additional Information

Gene ID	5245
Other Names	Prohibitin
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human Prohibitin protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

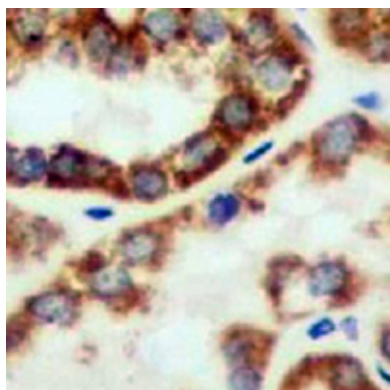
Protein Information

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.

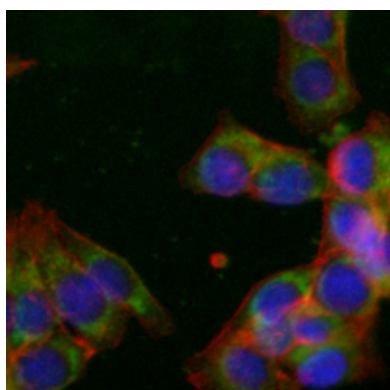
Images



Western blot analysis of Prohibitin expression in Ramos (A) whole cell lysates. (Predicted band size: 30 kD; Observed band size: 30 kD)



Immunohistochemical analysis of Prohibitin staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Prohibitin staining in Ramos cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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