

PHB / Prohibitin Antibody (clone 3F4-2B2)
Mouse Monoclonal Antibody
Catalog # ALS14057

Specification

PHB / Prohibitin Antibody (clone 3F4-2B2) - Product Information

Application	WB, IF, IHC
Primary Accession	P35232
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	30kDa KDa

PHB / Prohibitin Antibody (clone 3F4-2B2) - Additional Information

Gene ID 5245

Other Names
Prohibitin, PHB

Target/Specificity
Human Prohibitin

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
PHB / Prohibitin Antibody (clone 3F4-2B2) is for research use only and not for use in diagnostic or therapeutic procedures.

PHB / Prohibitin Antibody (clone 3F4-2B2) - 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

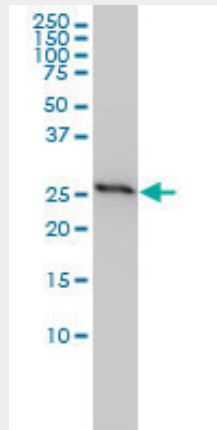
Widely expressed in different tissues.

PHB / Prohibitin Antibody (clone 3F4-2B2) - Protocols

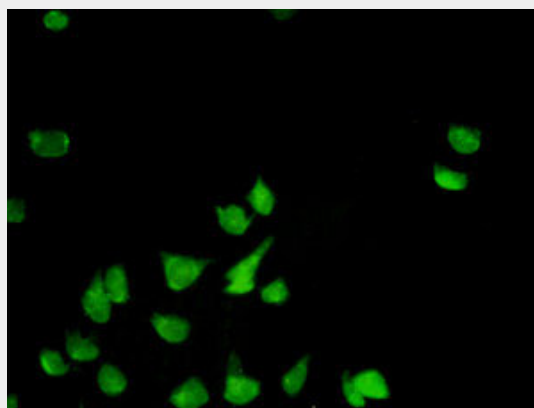
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

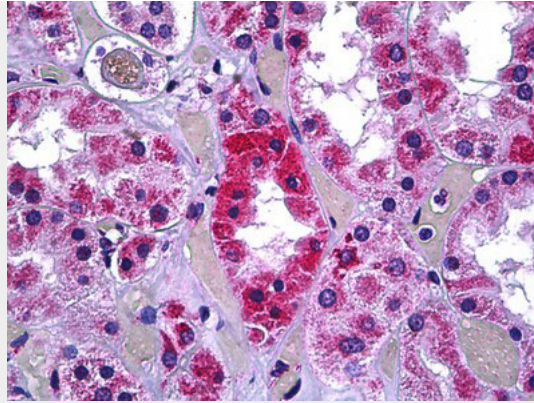
PHB / Prohibitin Antibody (clone 3F4-2B2) - Images



PHB monoclonal antibody clone 3F4-2B2 Western blot of PHB expression in HeLa.



Immunofluorescence of monoclonal antibody to PHB on HeLa cell. [antibody concentration 1 ~10 ug/ml].



Anti-PHB / Prohibitin antibody IHC of human kidney, tubules.

PHB / Prohibitin Antibody (clone 3F4-2B2) - 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.

PHB / Prohibitin Antibody (clone 3F4-2B2) - 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.
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Zody M.C.,et al.Nature 440:1045-1049(2006).