10320 Camino Santa Fe, Suite G
San Diego, CA 92121
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KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1052

Specification

KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P35232
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 30 kDa, observed, 30 kDa KDa**
Gene Name	**PHB1**
Aliases	**Prohibitin 1; PHB; Prohibitin; Epididymis Secretory Sperm Binding Protein Li 54e; Epididymis Luminal Protein 215; HEL-S-54e; HEL-215**
Immunogen	**A synthesized peptide derived from human Prohibitin**

KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody - Additional Information

Gene ID **5245**

Other Names
Prohibitin 1, PHB1 {ECO:0000303|PubMed:28017329, ECO:0000312|HGNC:HGNC:8912}

KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody - 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.

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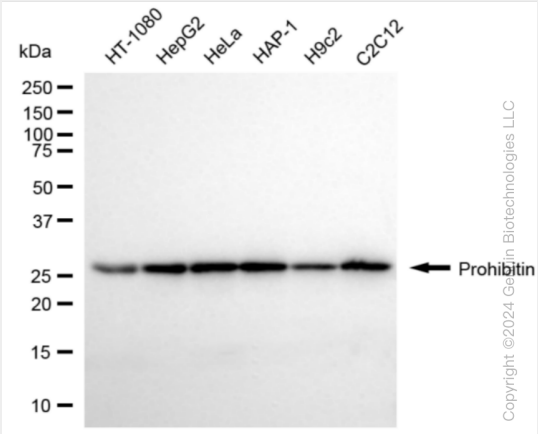
KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody - Protocols

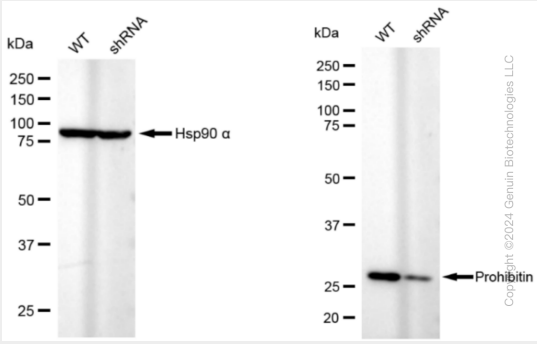
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-prohibitin antibody (Cat#AGI1052). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-prohibitin antibody (Cat#AGI1052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-prohibitin antibody (Cat#AGI1052). Prohibitin expression in wild type (WT) and prohibitin (PHB1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-prohibitin antibody (Cat#AGI1052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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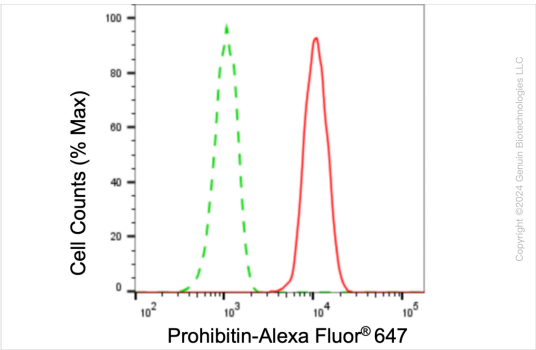
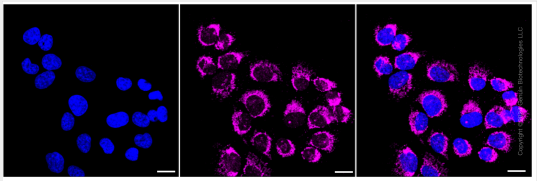


Flow cytometric analysis of prohibitin expression in HT-1080 cells using prohibitin antibody (Cat#AGI1052, 1:2,000). Green, isotype control; red, prohibitin.



Immunocytochemical staining of HT-1080 cells with prohibitin antibody (Cat#AGI1052, 1:1,000). Nuclei were stained blue with DAPI; Prohibitin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.