

Product Name: KD-Validated Prohibitin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01772

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 29.8kDa

Antigen Information

Gene Name	PHB1
Alternative Names	Prohibitin 1; PHB; Prohibitin; Epididymis Secretory Sperm Binding Protein Li 54e; Epididymis Luminal Protein 215; HEL-S-54e; HEL-215
Gene ID	5245.0
SwissProt ID	P35232
Immunogen	A synthesized peptide derived from human Prohibitin

Background

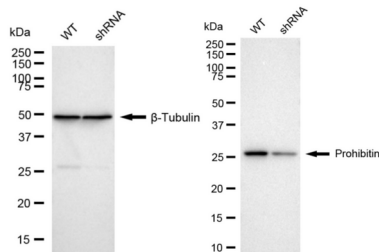
This gene is evolutionarily conserved, and its product is proposed to play a role in human cellular senescence and tumor suppression. Antiproliferative activity is reported to be localized to the 3' UTR, which is proposed to function as a trans-acting regulatory RNA. Several pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript

variants. [provided by RefSeq, Jul 2013]

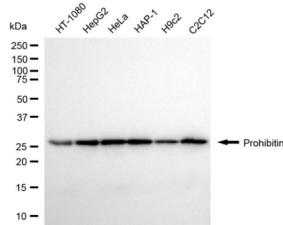
Research Area

Cell Biology, Tags & Cell Markers, Cell Biology, Epigenetics and Nuclear Signaling, Metabolism, Cancer

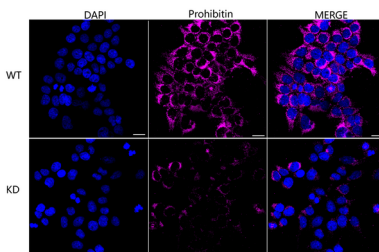
Image Data



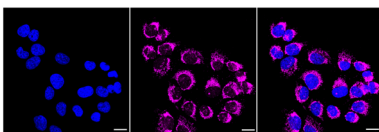
Western blotting analysis using prohibitin antibody (KVA01772). Prohibitin expression in wild type (WT) and prohibitin (PHB1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with prohibitin antibody (KVA01772, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



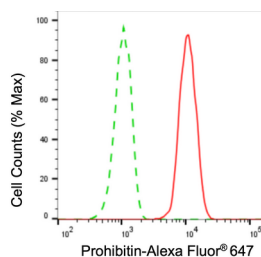
Western blotting analysis using prohibitin antibody (KVA01772). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with prohibitin antibody (KVA01772, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Prohibitin antibody (KVA01772, 1:1,000), Top panel: wild-type (WT); Bottom panel: Prohibitin shRNA knockdown (KD). Nuclei were stained blue with DAPI; Prohibitin was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HT-1080 cells with prohibitin antibody (KVA01772, 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.



Flow cytometric analysis of prohibitin expression in HT-1080 cells using prohibitin antibody (KVA01772, 1:2,000). Green, isotype control; red, prohibitin.