

Prohibitin Recombinant monoclonal antibody

Catalog Number: 88442-1-RR

Basic Information

Catalog Number: 88442-1-RR	GenBank Accession Number: BC013401	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 5245	CloneNo.: 260999D9
Isotype: IgG	UNIPROT ID: P35232	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:50-1:500 IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG1240	Full Name: prohibitin	
	Calculated MW: 30 kDa	
	Observed MW: 30 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with **TE buffer pH 9.0; (*)** Alternatively, antigen retrieval may be performed with **citrate buffer pH 6.0**

Positive Controls:

WB : Jurkat cells, MCF-7 cells, A431 cells, NIH/3T3 cells, Neuro-2a cells, PC-12 cells

IHC : mouse heart tissue, human liver cancer tissue

IF/ICC : HeLa cells,

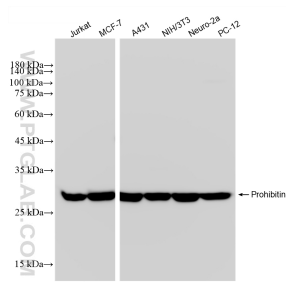
Background Information

Prohibitin, also known as PHB, a member of the Band-7 family of proteins, is widely distributed in bacteria, plants, yeast, protozoa and mammals and is important in cell proliferation, differentiation and apoptosis (PMID: 20840588). This protein localizes to the inner membrane of mitochondria, where it acts as a chaperone protein, and is also found in the nucleus, where it negatively regulates transcription (PMID: 18558096). Recent study confirmed that the expression and distribution of PHB, which is a nuclear matrix protein, affect the apoptosis of HaCaT cells and its co-localization with specific gene products connected with cell apoptosis (PMID: 24402549).

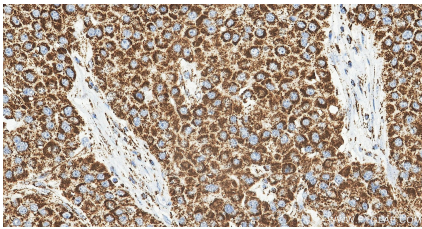
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



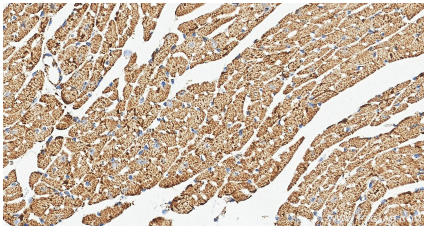
Various lysates were subjected to SDS PAGE followed by western blot with 88442-1-RR (Prohibitin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



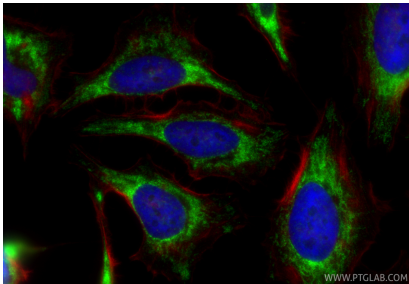
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 88442-1-RR (Prohibitin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 88442-1-RR (Prohibitin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 88442-1-RR (Prohibitin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Prohibitin antibody (88442-1-RR, Clone: 260999D9) at dilution of 1:200 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).