

Product Datasheet

Prohibitin Antibody (II-14-10)

NB600-1292-0.25ml

Unit Size: 0.25 ml

Store at 4C.

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NB600-1292-0.25ml

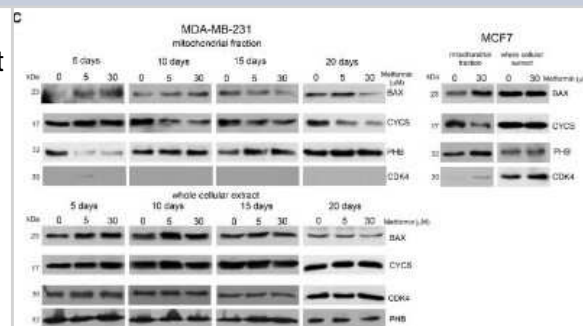
Prohibitin Antibody (II-14-10)

Product Information	
Unit Size	0.25 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C.
Clonality	Monoclonal
Clone	II-14-10
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS (pH 7.4) and 0.2% BSA
Product Description	
Host	Mouse
Gene ID	5245
Gene Symbol	PHB1
Species	Human, Mouse, Rat
Reactivity Notes	This antibody is reactive against pig. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Marker	Mitochondria Marker
Specificity/Sensitivity	This is specific to 30kD protein known as Prohibitin. Prohibitin is an evolutionarily conserved protein located in the innermembrane of mitochondria. Prohibitin shows antiproliferative activity and has been proposed to play a role in normal cell cycle regulation, replicative senescence, cellular immortalization, and tumor suppression. This antibody cross reacts with mouse, rat, and pig.
Immunogen	BALB/C mice were injected with purified recombinant rat prohibitin protein.
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	This antibody may be diluted to a titer of 1:50-1:100 in an ABC method. We suggest an incubation period of 30 minutes at room temperature. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Use in Western blot reported in scientific literature (PMID 22595756).

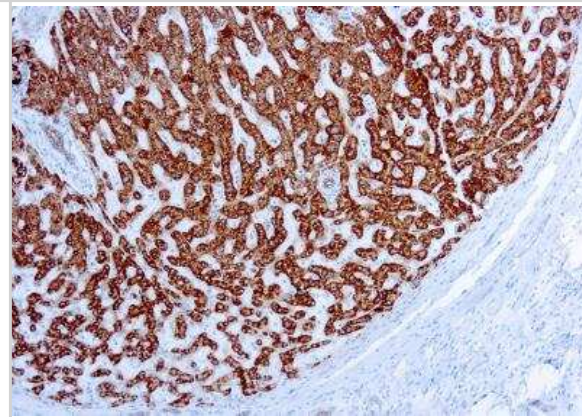


Images

Western Blot: Prohibitin Antibody (II-14-10) [NB600-1292] - Metformin activates apoptotic cell death; upper panel: MDA-MB-231 cells were kept in the presence or absence of metformin for the time indicated and then processed to obtain mitochondrial fractions. BAX and CYCS expression levels were determined by Western blot as indicated under Material and Methods. Densitometric analysis of the gels was performed as indicated under Material and Methods. PHB and CDK4 were used as loading and purity control, respectively. BAX and CYCS expression levels were determined by Western blot as indicated under Material and Methods. Densitometric analysis of the gels was performed as indicated under Material and Methods. PHB and CDK4 were used as purity and loading controls. Image collected and cropped by CiteAb from the following publication (<http://www.mdpi.com/2073-4409/8/1/49>) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: Prohibitin Antibody (II-14-10) [NB600-1292] - Formalin fixed paraffin embedded liver hepatocellular carcinoma stained with Prohibitin antibody (NB600-1292).



Publications

Saladini S, Aventaggiato M, Barreca F et al. Metformin Impairs Glutamine Metabolism and Autophagy in Tumour Cells. *Cells* 2019-01-14 [PMID: 30646605] (WB, Human)

Lugini L, Cecchetti S, Huber V et al. Immune surveillance properties of human NK cell-derived exosomes. *J Immunol*. [PMID: 22904309] (WB, Human)

Details:
Citation using the IHC-Prediluted form of this antibody.

Xu Z, Wu J, Zha X. Up-regulation of prohibitin 1 is involved in the proliferation and migration of liver cancer cells. *Sci China Life Sci*. [PMID: 21318481] (WB, Human)

Details:
Citation using the IHC-Prediluted form of this antibody.

Pellegrini L, Pucci B, Villanova L et al. SIRT3 protects from hypoxia and staurosporine-mediated cell death by maintaining mitochondrial membrane potential and intracellular pH *Cell Death Differ* [PMID: 22595756] (WB, Human)

Details:
Used the IHC-Prediluted form of this antibody.



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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