

Product Datasheet

Prohibitin Antibody (5H7)

NBP2-37563

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-37563

Prohibitin Antibody (5H7)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5H7
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ascites
Buffer	Ascites
Target Molecular Weight	30 kDa

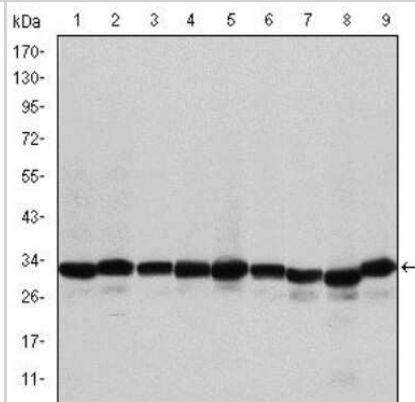
Product Description	
Description	Novus Biologicals Mouse Prohibitin Antibody (5H7) (NBP2-37563) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-Prohibitin Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	5245
Gene Symbol	PHB1
Species	Human, Mouse, Rat, Primate, Monkey
Reactivity Notes	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.
Immunogen	Purified recombinant fragment of human Prohibitin expressed in E. Coli.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000

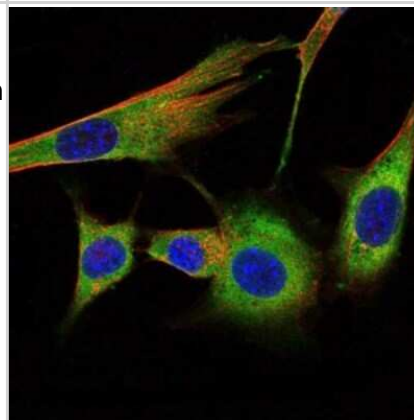


Images

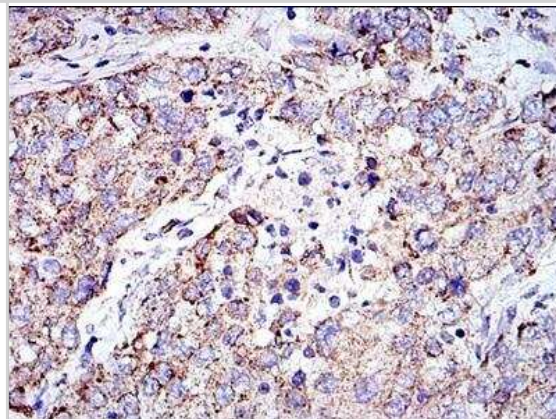
Western Blot: Prohibitin Antibody (5H7) [NBP2-37563] - Western blot analysis using PHB mouse mAb against A431 (1), MCF-7 (2), Jurkat (3), Hela (4), HepG2 (5), A549 (6), NIH/3T3 (7), Cos7 (8) and PC-12 (9) cell lysate.



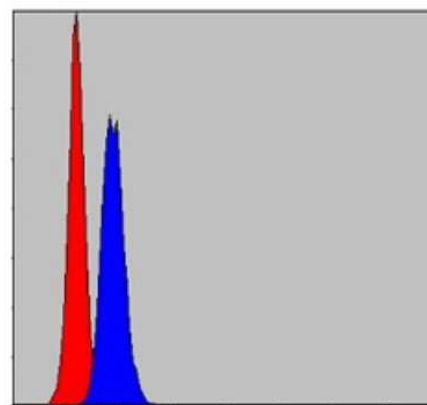
Immunocytochemistry/Immunofluorescence: Prohibitin Antibody (5H7) [NBP2-37563] - Immunofluorescence analysis of NIH/3T3 cells using PHB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



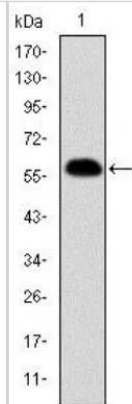
Immunohistochemistry-Paraffin: Prohibitin Antibody (5H7) [NBP2-37563] - Immunohistochemical analysis of paraffin-embedded lung cancer tissues using PHB mouse mAb with DAB staining.



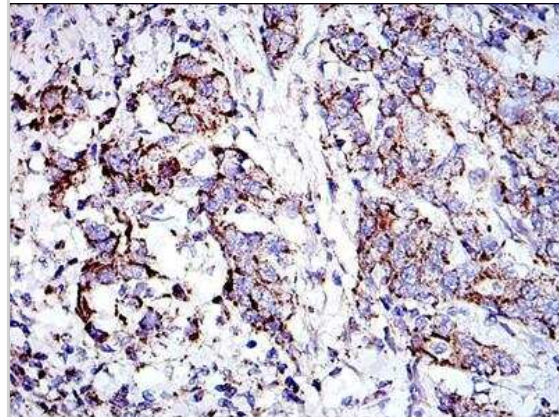
Flow Cytometry: Prohibitin Antibody (5H7) [NBP2-37563] - Flow cytometric analysis of MCF-7 cells using PHB mouse mAb (blue) and negative control (red).



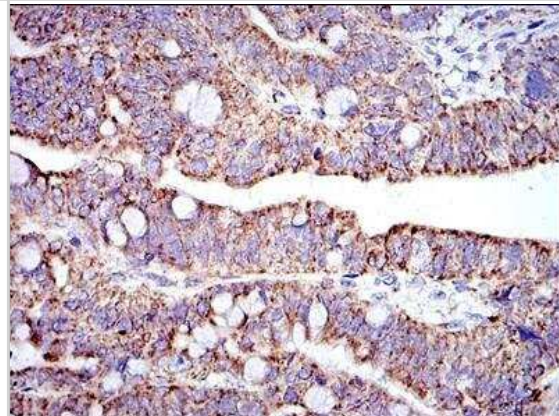
Western Blot: Prohibitin Antibody (5H7) [NBP2-37563] - Western blot analysis using PHB mAb against human PHB (AA: 68-259) recombinant protein. (Expected MW is 46.7 kDa)



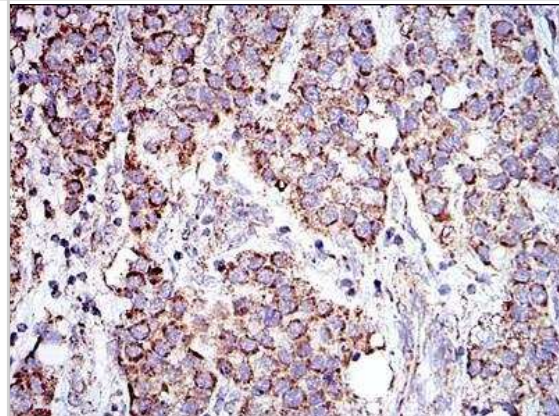
Immunohistochemistry-Paraffin: Prohibitin Antibody (5H7) [NBP2-37563] - Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using PHB mouse mAb with DAB staining.



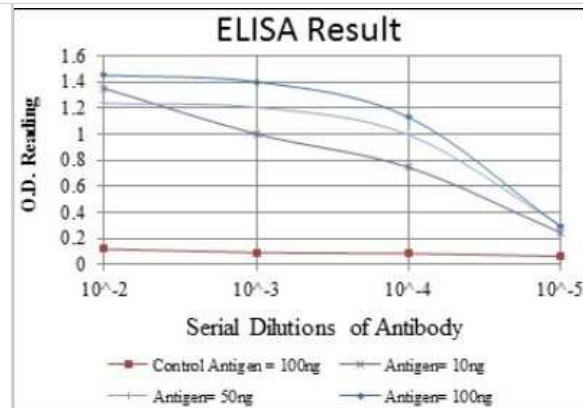
Immunohistochemistry-Paraffin: Prohibitin Antibody (5H7) [NBP2-37563] - Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PHB mouse mAb with DAB staining.



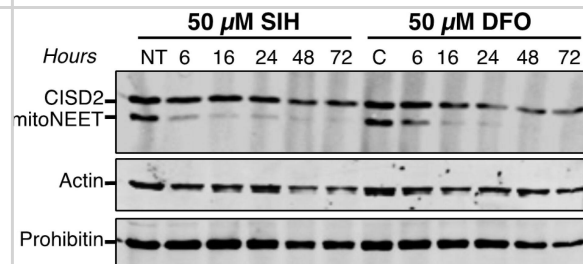
Immunohistochemistry-Paraffin: Prohibitin Antibody (5H7) [NBP2-37563] - Immunohistochemical analysis of paraffin-embedded liver cancer tissues using PHB mouse mAb with DAB staining.



ELISA: Prohibitin Antibody (5H7) [NBP2-37563] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



Unlike mitoNEET, CISD2 protein level is moderately affected by iron chelator treatments. HeLa cells were treated with either SIH or DFO for the indicated times. Untreated cells are noted NT. MitoNEET and CISD2 protein levels were determined by immunoblotting using anti-CISD2 antibodies. Actin (cytosolic protein) and prohibitin (mitochondrial inner membrane-localized protein) were used as protein loading controls. The experiment was performed twice; one representative experiment is shown. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33916457>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Deborah Grifagni, José Malanho Silva, Leonardo Querci, Michel Lepoivre, Cindy Vallières, Ricardo O. Louro, Lucia Banci, Mario Piccioli, Marie-Pierre Golinelli-Cohen, Francesca Cantini Biochemical and cellular characterization of the CISD3 protein: Molecular bases of cluster release and destabilizing effects of nitric oxide *The Journal of Biological Chemistry* 2024-02-12 [PMID: 38354784]



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Products Related to NBP2-37563

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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