

Product Datasheet

Peripherin Antibody - BSA Free NB300-137

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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NB300-137

Peripherin Antibody - BSA Free

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	Polyclonal
Preservative	5mM Sodium Azide
Purity	Unpurified
Buffer	Supplied as serum
Target Molecular Weight	57 kDa

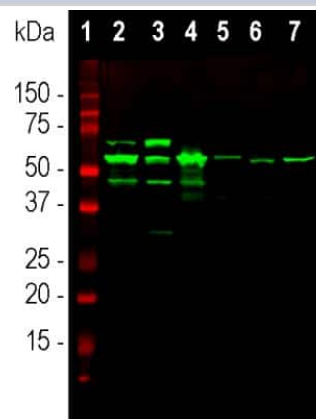
Product Description	
Description	Novus Biologicals Rabbit Peripherin Antibody - BSA Free (NB300-137) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Peripherin Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5630
Gene Symbol	PRPH
Species	Human, Mouse, Rat, Porcine, Bovine
Marker	Un-myelinated Neurons Marker
Specificity/Sensitivity	Specifically recognizes peripherin, showing no cross reactivity with other Class III intermediate filament proteins.
Immunogen	Full length recombinant human peripherin expressed in and purified from E. coli.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry 1:2000, Immunocytochemistry/ Immunofluorescence 1:2000, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	This Peripherin antibody can be used for Immunocytochemistry/Immunofluorescence, Western blotting, and Immunohistochemistry. In WB a band can be seen at ~57 kDa. Use in IHC-P and IHC-Fr reported in scientific literature (PMID: 16325747 and 24277578 respectively).

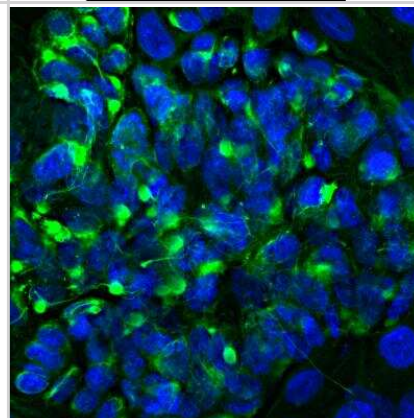


Images

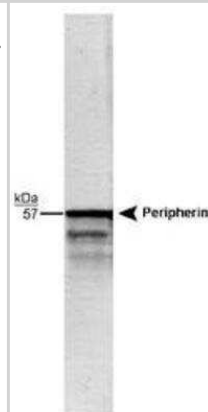
Western Blot: Peripherin Antibody [NB300-137] - Analysis of tissue and cell lysates using Peripherin antibody, dilution 1:10000 in green: [1] protein standard, [2] rat spinal cord, [3] mouse spinal cord, [4] pig spinal cord, [5] cow spinal cord, [6] SH-SY5Y cells and [7] PC12 cells. The major band at ~57kDa corresponds to the major peripherin protein isoform, while other bands presumably represent protein products of alternate transcripts of the peripherin gene.



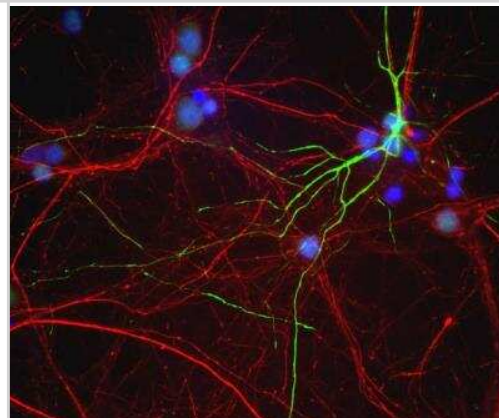
Immunocytochemistry/Immunofluorescence: Peripherin Antibody [NB300-137] - Analysis of the widely used rat pheochromocytoma PC12 cell line stained with rabbit polyclonal Peripherin antibody, dilution 1:2000 (Green). Hoechst staining of nuclear DNA (Blue). Peripherin, one of the Class III family of intermediate filament subunit proteins, is a major component of the PC12 cell forming a perinuclear cap, with some filaments visible in the cytoplasm.



Western Blot: Peripherin Antibody [NB300-137] Detection of the 57 kDa peripherin protein in whole rat brain stem homogenate using NB 300-137 (1:20,000). The faint 48 kDa band is a peripherin molecule.



Immunocytochemistry/Immunofluorescence: Peripherin Antibody [NB300-137] - Mixed neuron/glia cultures from newborn rat brain stained with NB300-137 antibody to peripherin (green) and chicken polyclonal antibody to phosphorylated NF-H (red channel). A class of large neurons, like the one at the top right of this image, contain peripherin, while the majority of neurons and their processes contain NF-H and not peripherin. The blue channel reveals the localization of DNA.



Publications

Li R, Walsh P, Truong V et al. Differentiation of Human iPS Cells Into Sensory Neurons Exhibits Developmental Stage-Specific Cryopreservation Challenges *Frontiers in Cell and Developmental Biology* 2021-12-14 [PMID: 34970550] (Immunocytochemistry/ Immunofluorescence, Rat)

Gambarotto L, Bresolin S, Persano L et al. Schwann cell-specific ablation of Beclin 1 impairs peripheral myelination and leads to a progressive motor and sensory neuropathy *Research Square* 2023-11-16 (IHC-Fr, Mouse)

Details:

Dilution 1:100; mouse sciatic nerve

Li R Mechanistic Investigation of Cell Cryopreservation Aided by Raman Spectroscopy: Challenges and Solutions for hiPSC Technologies Thesis 2021-01-01

Krawczyk E, Hong SH, Galli S et al. Murine neuroblastoma cell lines developed by conditional reprogramming preserve heterogeneous phenotypes observed in vivo *Lab. Invest.* 2019-08-13 [PMID: 31409888] (ICC/IF, Mouse)

Chen P, Cescon M, Megighian A, Bonaldo P. Collagen VI regulates peripheral nerve myelination and function. *FASEB J.* 2013-11-25 [PMID: 24277578] (ICC/IF, IHC-Fr, Mouse)

Kirby LS, Kirby MA, Warren JW et al. Increased innervation and ripening of the prepartum murine cervix. *J Soc Gynecol Investig.* 2005-12-01 [PMID: 16325747] (IHC-P, Mouse)

Burgess, R W, Jucius, T J, Ackerman, S L. Motor Axon Guidance of the Mammalian Trochlear Phrenic Nerves: Dependence on the Netrin Receptor *Unc5c* Modifier Loci, . 26, 5756-5766. 2006-01-01 [PMID: 16723533] (ICC/IF, Mouse)

Yellon SM, Burns AE, See JL et al. Progesterone Withdrawal Promotes Remodeling Processes in the Nonpregnant Mouse Cervix. *Biol Reprod*;81(1):1-6. 2009-01-01 [PMID: 19228593] (IF/IHC, Mouse)

Arvanian VL, Bowers WJ, Petruska JC, Motin V, Manuzon H, Narrow WC, Federoff HJ, Mendell LM. Viral delivery of NR2D subunits reduces Mg²⁺ block of NMDA receptor and restores NT-3-induced potentiation of AMPA-kainate responses in maturing rat motoneurons. *J Neurophysiol*;92(4):2394-404. 2004-10-01 [PMID: 15152019] (ICC/IF, Rat)





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Products Related to NB300-137

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
H00005630-P01-10ug	Recombinant Human Peripherin GST (N-Term) Protein

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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