

Datasheet for ABIN1580457
anti-Peripherin antibody



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2 Images

Overview

Quantity:	500 µL
Target:	Peripherin (PRPH)
Reactivity:	Rat, Mammalian
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Peripherin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Clone:	8G2
Isotype:	IgG1
Purification:	conc. tissue culture supernatant

Target Details

Target:	Peripherin (PRPH)
Alternative Name:	Peripherin (PRPH Products)
Background:	Peripherin is a approx. 57 kDa intermediate filament subunit found initially in sensory neurons of the peripheral nervous systems, which gives the protein its name. Subsequently peripherin was found in some sensory and other neurons of the central nervous system and also in rat pheochromacytoma PC12 cells. Peripherin is also expressed in certain neuroendocrine tumors

Target Details

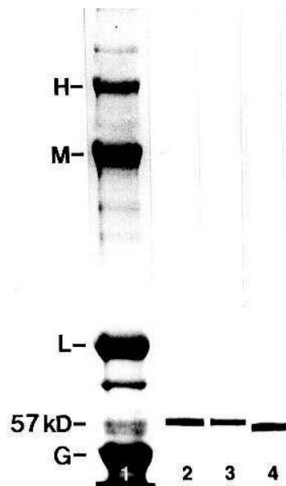
and in the insulin producing cells of the pancreas. Peripherin belongs to the Class III family of intermediate filament subunits which also includes vimentin, glial fibrillary acidic protein (GFAP) and desmin. Antibodies to peripherin can be used in identifying, classifying, and studying neurons throughout the nervous system. Peripherin is also a good diagnostic marker for ballooned axons seen in Lou Gehrig's disease (Amyotrophic lateral sclerosis) and some neuronally derived tumors. Autoantibodies to peripherin are frequently seen in the sera of patients with diabetes. Peripherin is not related to peripherin/RDS, a protein of the photoreceptor outer membrane mutations of which are causative of certain forms of slow retinal degeneration. The characterization of this antibody has been published and has been on the market through many companies for several years, so many other publications make use of this reagent. The HGNC name for this protein is PRPH.

Application Details

Application Notes:	We recommend trying the antibody at 1:500 for immunofluorescence and 1:5,000 of western blotting purposes.
Restrictions:	For Research Use only

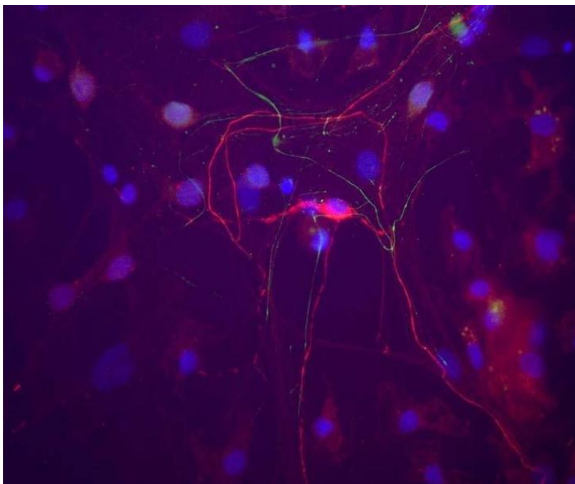
Handling

Format:	Liquid
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 4°C. For safest long-term storage, maintain aliquots at -80°C or at -20°C.



Western Blotting

Image 1. Lane 1 shows Coomassie blue stain of a cytoskeletal extract of rat spinal cord. H, M and L indicate the positions of the three major neurofilament subunits, while G corresponds to glial fibrillary acidic protein (GFAP). Immunoblotting of ABIN1580457 on this material is shown in lane 2. Lane 3 shows staining with our rabbit polyclonal antibody to peripherin RPCA-Peri. Peripherin runs at ~57 kDa and so is a little larger than GFAP and vimentin which run at ~50 kDa (lane 4 shows blotting with a vimentin antibody).



Immunofluorescence

Image 2. A neuron in a rat cortical neuron culture which stains strongly for peripherin with ABIN1580457 (red). A minority of cells in such cultures are strongly peripherin positive. In some cases they also stain for other neurofilament subunits, but this particular cell shows very little staining for NF-L using our rabbit polyclonal antibody RPCA-NF-L (green). Blue is the DNA stain DAPI. 4949 SW 41st Blvd. Suites 40 & 50 Gainesville, FL 32608 Tel: (352) 372 7022 Fax: (352) 372 7066 admin@bio.com