

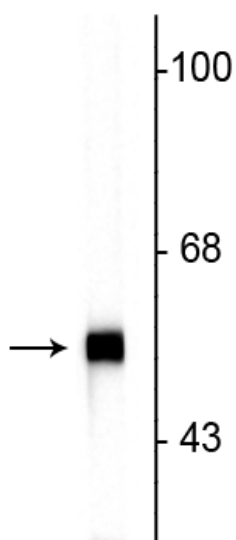
Product Datasheet

Anti-Peripherin

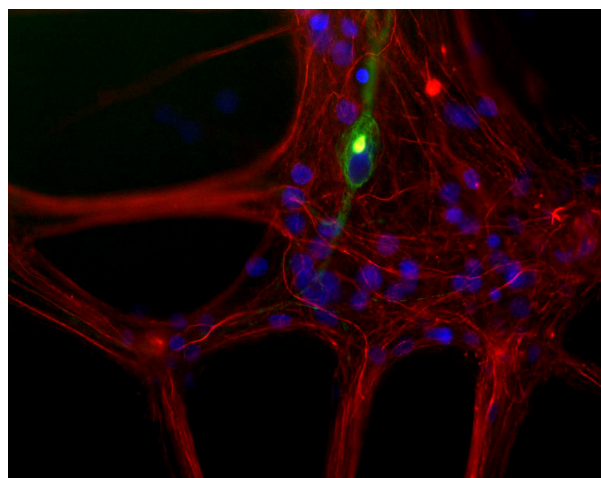
Overview

Catalog #	1630-PER
Host Species	Mouse Monoclonal
Isotype	IgG ₁
Clone	7C5
Format	Concentrated tissue culture supernatant
Applications	WB 1:1000 IHC 1:200 ICC 1:200-1:500
Species Tested	Mouse, Rat
Immunogen	Recombinant rat peripherin expressed in and purified from <i>E. coli</i> .
Molecular Weight	57 kDa
Cite this Antibody	PhosphoSolutions Cat# 1630-PER, RRID:AB_2492207

Images



Western blot of rat cerebellar lysate showing specific immunolabeling of the ~57 kDa peripherin protein.



Immunostaining of cultured newborn rat neurons and glia showing peripherin (catalog # 1630-PER, green, 1:200) and neurofilament L (red). The nuclear DNA is stained blue.

Details

Target Description	Peripherin is a ~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 PC12 cells. Peripherin is also expressed in certain neuroendocrine tumors 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. In contrast to the neurofilaments, peripherin is strongly up-regulated after nerve injury (1). 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 (2). Autoantibodies to peripherin are frequently seen in the sera of patients with diabetes (3). 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.
Specificity	Specific for endogenous levels of the ~57 kDa peripherin protein. This antibody performs well on aldehyde fixed tissues.
Production/Purification	Concentrated tissue culture supernatant
Quality Control	Western blots performed on each lot.
Buffer	Concentrated tissue culture supernatant + 10 mM NaN ₃
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 µL/vial depending on usage) upon arrival and stored long term at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles.
Stability	After date of receipt, stable for at least 1 year at -20°C.

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