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34-1100: Monoclonal Antibody to Peripherin (Clone: 8G2)

Clonality :	Monoclonal
Clone Name :	8G2
Application :	WB
Reactivity :	Human
Gene :	PRPH
Gene ID :	5630
Uniprot ID :	P41219
Format :	T.C. Sup.
Alternative Name :	Neurofilament 4
Isotype :	Mouse, IgG1
Immunogen Information :	Recombinant rat peripherin purified from E. coli

Product Info

Amount :	500 µl
Content :	Antibody is supplied as an aliquot of concentrated tissue culture supernatant
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:500-1,000. IF/ICC and IHC: 1:500.

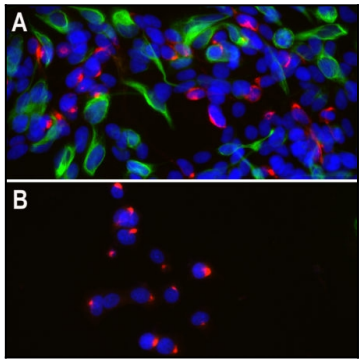


Figure-1: Immunofluorescent analysis of human neuroblastoma cell line SH-SY5Y (A) and rat pheochromocytoma cell line PC12 (B), stained with mouse mAb to peripherin,(34-1100), dilution 1:500, in red, and costained with chicken pAb to vimentin,(34-1126), dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. Peripherin, one of the Class III family of intermediate filament (IF) subunit proteins is revealed by (34-1100) antibody in the perinuclear region in some SH-SY5Y cells and in all PC12 cells. Vimentin, a protein also in the Class III IF family, is detected in a subpopulation of SH-SY5Y cells which are negative for peripherin. PC12 cells express peripherin but not vimentin.

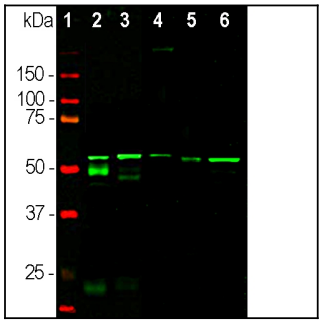


Figure-2: Western blot analysis of tissue and cell lysates probed with mouse mAb to peripherin,(34-1100), dilution 1:500 in green: [1] protein standard (red), [2] mouse spinal cord, [3] rat spinal cord, [4] cow spinal cord, [5] SH-SY5Y cells, and [6] PC12 cells. The band at ~57kDa corresponds to the peripherin protein. Bands at 50 and 25kDa detected in the mouse spinal cord lysate, correspond to the heavy and light chains of mouse IgG.

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