

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

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal                                       |
| <b>Clone Name :</b>            | 8G2  |
| <b>Application :</b>           | WB, IF/ICC, IHC                                  |
| <b>Reactivity :</b>            | Human, Rat, Mouse, Cow, Pig                      |
| <b>Gene :</b>                  | PRPH   |
| <b>Gene ID :</b>               | 5630   |
| <b>Uniprot ID :</b>            | P41219   |
| <b>Format :</b>                | T.C. Sup.  |
| <b>Alternative Name :</b>      | Neurofilament 4                                  |
| <b>Isotype :</b>               | Mouse, IgG1                                      |
| <b>Immunogen Information :</b> | Recombinant rat peripherin purified from E. coli |

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 50 µl / 500 µl  |
| <b>Content :</b>           | Antibody is supplied as an aliquot of concentrated tissue culture supernatant   |
| <b>Storage condition :</b> | 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.

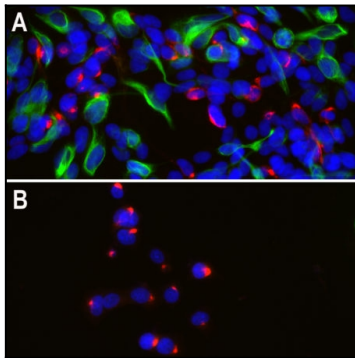


Figure-1: Immunofluorescent analysis of human neuroblastoma cell line SH-SY5Y (A) and rat pheochromocytoma cell line PC12 (B), stained with mouse mAb to peripherin,(34-1100), dilution 1:500, in red, and costained with chicken pAb to vimentin,(34-1126), dilution 1:10,000, in green. The blue is DAPI staining 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.

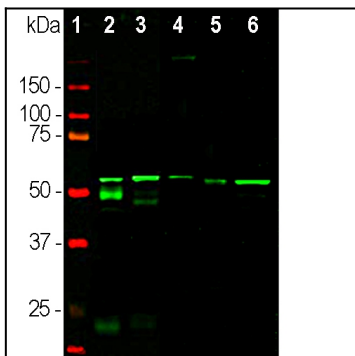


Figure-2: Western blot analysis of tissue and cell lysates probed with mouse mAb to peripherin,(34-1100), dilution 1:500 in green: [1] protein standard (red), [2] mouse spinal cord, [3] rat spinal cord, [4] cow spinal cord, [5] SH-SY5Y cells, and [6] PC12 cells. The band at ~57kDa corresponds to the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