**BACKGROUND**

Peripherin is a type III intermediate filament protein (IFP) that is expressed in peripheral and some central nervous system (CNS) neurons. Peripherin activation is known to be induced by leukemia inhibitory factor (LIF). LIF activates Peripherin by inducing members of Stat transcription factor family to bind to a specific promoter element in the Peripherin gene. IL-6 is also known to induce Peripherin expression. Although it is not essential for neurite formation, Peripherin is necessary for cellular intermediate filament network formation. Peripherin, unlike most intermediate filament proteins, has been reported to be modified by tyrosine phosphorylation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PRPH (human) mapping to 12q12-q13; Prph1 (mouse) mapping to 15 E-F.

**SOURCE**

Peripherin (8G2) is a mouse monoclonal antibody raised against recombinant Peripherin of rat origin.

**PRODUCT**

Each vial contains 250 µl culture supernatant containing IgG1 with PBS and < 0.1% sodium azide.

**STORAGE**

For immediate and continuous use, store at 4°C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

**APPLICATIONS**

Peripherin (8G2) is recommended for detection of Peripherin of mouse, rat and human origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:500-1:2500), immunoprecipitation (10-20 µl per 100-500 µg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution to be determined by researcher, dilution range 1:50-1:2500).

Suitable for use as control antibody for Peripherin siRNA (h): sc-36211 and Peripherin siRNA (m): sc-36212; and as shRNA Plasmid control antibody for Peripherin shRNA Plasmid (h): sc-36211-SH and Peripherin shRNA Plasmid (m): sc-36212-SH.

Molecular Weight of Peripherin: 57 kDa.

Positive Controls: PC-12 cell lysate: sc-2250, HeLa whole cell lysate: sc-2200 or human colon carcinoma

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

**PERIPHERIN (8G2): SC-58834**

Western blot analysis of Peripherin expression in PC-12 whole cell lysate.

Peripherin (8G2): sc-58834: Western blot analysis of Peripherin expression in PC-12 whole cell lysate.

Peripherin (BG2): sc-58834: Western blot analysis of Peripherin expression in non-transfected 293T: sc-117752 (A) and mouse Peripherin transfected 293T: sc-122495 (B) and PC-12 (C) whole cell lysates.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.