**Myelin P2 (B-11): sc-374058**

**BACKGROUND**
Peripheral Myelin protein-2 (PMP2, Myelin P2, MP2), a small basic enzyme, is one of the principal proteins of peripheral Myelin and presumably participates in the transport of fatty acids or the metabolism of Myelin lipids. Myelin P2 is similar in amino acid sequence and tertiary structure to fatty acid binding proteins found in the liver, adipocytes and intestine, although its expression is restricted to the nervous system. Research indicates that Myelin P2 may play an important role in the organization of compact Myelin; the protein is detected only in Myelin-producing cells of the central and peripheral nervous systems. The 5’ flanking region of the Myelin P2 gene contains a TA-rich element (TATA-like box) and a single, distinct transcription initiation site. The gene maps to 8q21.13 and encodes a cytosolic protein.

**REFERENCES**

**CHROMOSOMAL LOCATION**
Genetic locus: PMP2 (human) mapping to 8q21.13.

**SOURCE**
Myelin P2 (B-11) is a mouse monoclonal antibody raised against amino acids 18-56 mapping near the N-terminus of Myelin P2 of human origin.

**PRODUCT**
Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**
Myelin P2 (B-11) is recommended for detection of Myelin P2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein [1 ml of cell lysate]), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Myelin P2 siRNA (h): sc-61113, Myelin P2 shRNA Plasmid (h): sc-61113-SH and Myelin P2 shRNA (h) Lentiviral Particles: sc-61113-V.

Molecular Weight of Myelin P2: 15 kDa.
Positive Controls: human Myelin P2 transfected HEK293T whole cell lysate.

**RECOMMENDED SUPPORT REAGENTS**
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting LuminoL reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGx BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

**SELECT PRODUCT CITATIONS**

**STORAGE**
Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**PROTOCOLS**
See our web site at www.scbt.com for detailed protocols and support products.

SANTA CRUZ BIOTECHNOLOGY, INC.

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