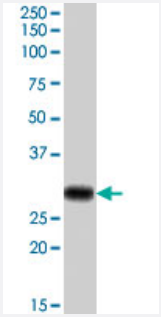
MPZ polyclonal antibody

Catalog # PAB7332 Size 100 ug

Applications



Western Blot (Tissue lysate)

MPZ polyclonal antibody (Cat # PAB7332) (0.1 ug/mL) staining of rat spinal cord lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of MPZ.
Immunogen	A synthetic peptide corresponding to human MPZ.
Sequence	C-DHSRSTKAVSEK
Host	Goat
Theoretical MW (kDa)	28.5
Reactivity	Rat
Specificity	The presence of this PNS protein in Rat Spinal Cord is likely due to contamination with spinal roots d uring extraction from the animal.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:32000) Western Blot (0.1-0.3 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — MPZ

Entrez GeneID	4359
Protein Accession#	NP_000521.1
Gene Name	MPZ
Gene Alias	CHM, CMT1, CMT1B, CMT2I, CMT2J, CMT4E, CMTDI3, DSS, HMSNIB, MPP, P0
Gene Description	myelin protein zero
Omim ID	118200 145900 159440 180800 605253 607677 607736 607791
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a major structural protein of peripheral myelin. Mutations in this gene result in t he autosomal dominant form of Charcot-Marie-Tooth disease type 1 as other polyneuropathies. [p rovided by RefSeq
Other Designations	Charcot-Marie-Tooth neuropathy 1B|OTTHUMP00000032235

Publication Reference

- Upregulation of large myelin protein zero leads to Charcot-Marie-Tooth disease-like neuropathy in mice.

  Yoshinori Otani, Nobuhiko Ohno, Jingjing Cui, Yoshihide Yamaguchi, Hiroko Baba.

  Communications Biology 2020 Mar; 3(1):121.

  Application: WB-Ti, Mouse, Mouse sciatic nerve homogenates

- DHTKD1 deficiency causes Charcot-Marie-Tooth disease in mice.

  Xu WY, Zhu H, Shen Y, Wan YH, Tu XD, Wu WT, Tang L, Zhang HX, Lu SY, Jin XL, Fei J, Wang ZG.

  Molecular and Cellular Biology 2018 Jun; 38(13):e00085.

  Application: WB-Ce, Mouse, Schwann cells

- Involvement of the Tyro3 receptor and its intracellular partner Fyn signaling in Schwann cell myelination.

  Miyamoto Y, Torii T, Takada S, Ohno N, Saitoh Y, Nakamura K, Ito A, Ogata T, Terada N, Tanoue A, Yamauchi J.

  Molecular Biology of the Cell 2015 Oct; 26(19):3489.

  Application: WB, Rat, Schwann cells

- In Vivo Expression of the Arf6 Guanine-Nucleotide Exchange Factor Cytohesin-1 in Mice Exhibits Enhanced Myelin Thickness in Nerves.

  Torii T, Miyamoto Y, Onami N, Tsumura H, Nemoto N, Kawahara K, Kato M, Kotera J, Nakamura K, Tanoue A, Yamauchi J.

  Journal of Molecular Neuroscience 2013 Oct; 51(2):522.

  Application: WB-Ti, Mouse, Sciatic nerves

- Phosphorylation of cytohesin-1 by Fyn is required for initiation of myelination and the extent of myelination during development.

  Yamauchi J, Miyamoto Y, Torii T, Takashima S, Kondo K, Kawahara K, Nemoto N, Chan JR, Tsujimoto G, Tanoue A.

  Science Signaling 2012 Sep; 5(243):ra69.

  Application: WB, Mouse, Mouse sciatic nerves

- L-MPZ, a novel isoform of myelin P0, is produced by stop codon readthrough.

  Yamaguchi Y, Hayashi A, Campagnoni CW, Kimura A, Inuzuka T, Baba H.

  The Journal of Biological Chemistry 2012 May; 287(21):17765.

  Application: IF, WB, Rat, Rat ScN whole homogenates

- The Atypical Guanine-Nucleotide Exchange Factor, Dock7, Negatively Regulates Schwann Cell Differentiation and Myelination.

  Yamauchi J, Miyamoto Y, Hamasaki H, Sanbe A, Kusakawa S, Nakamura A, Tsumura H, Maeda M, Nemoto N, Kawahara K, Torii T, Tanoue A.

  Journal of Neuroscience 2011 Aug; 31(35):12579.

  Application: WB-Ti, WB-Tr, Rat, Rat sciatic nerves

- Neuropathy-associated Egr2 mutants disrupt cooperative activation of myelin protein zero by Egr2 and Sox10.

  LeBlanc SE, Ward RM, Svaren J.

  Molecular and Cellular Biology 2007 May; 27(9):3521.

Pathway

- Cell adhesion molecules (CAMs)

Disease

- Charcot-Marie-Tooth Disease
- Deafness
- Demyelinating Diseases
- Peripheral Nervous System Diseases