Leader in Biomolecular Solutions for Life Science

Myelin Protein Zero (MPZ) Rabbit mAb

Catalog No.: A21931

Recombinant | 2 Publications

www.abclonal.com

Basic Information

Observed MW
28 kDa

Calculated MW
28 kDa

Category
Monoclonal Antibodies

Applications
WB, IF-F, IF-P, IHC-P, ELISA

Cross Reactivity
Mouse, Rat

Clone No.
ARC53696

Background

This gene is specifically expressed in Schwann cells of the peripheral nervous system and encodes a type I transmembrane glycoprotein that is a major structural protein of the peripheral myelin sheath. The encoded protein contains a large hydrophobic extracellular domain and a smaller basic intracellular domain, which are essential for the formation and stabilization of the multilamellar structure of the compact myelin. Mutations in this gene are associated with autosomal dominant form of Charcot-Marie-Tooth disease type 1 (CMT1B) and other polyneuropathies, such as Dejerine-Sottas syndrome (DSS) and congenital hypomyelinating neuropathy (CHN). A recent study showed that two isoforms are produced from the same mRNA by use of alternative in-frame translation termination codons via a stop codon readthrough mechanism.

Recommended Dilutions

WB	1:2000 - 1:20000
IF-F	1:200 - 1:800
IF-P	1:200 - 1:1000
IHC-P	1:500 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
4359

Swiss-Prot
P25189

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
P0; CHM; DSS; MPP; CHN2; CMT1; CMT1B; CMT2I; CMT2J; CMT4E; CMTDI3; CMTDID; HMSNIB; Myelin Protein Zero (MPZ)

Contact

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Product Information

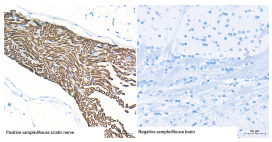
Source
Rabbit

Isotype
IgG

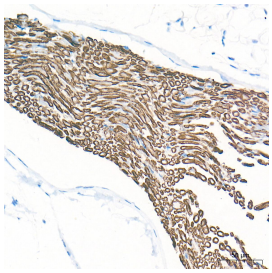
Purity
Affinity purification

Storage
Store at -20℃

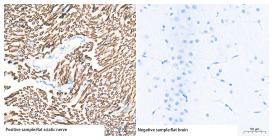
Validation Data



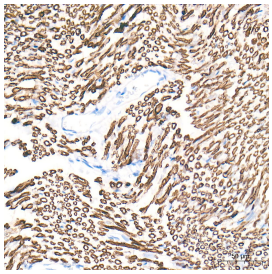
Immunohistochemistry analysis of paraffin-embedded Mouse sciatic nerve tissue (left, Positive control) and Mouse brain tissue (right, Negative control) tissue using Myelin Protein Zero (MPZ) Rabbit mAb (A21931) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



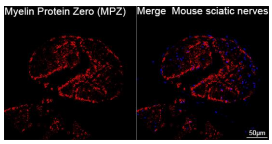
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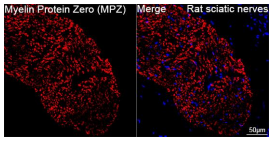
Immunohistochemistry analysis of paraffin-embedded Rat sciatic nerve tissue (left, Positive control) and Rat brain tissue (right, Negative control) tissue using Myelin Protein Zero (MPZ) Rabbit mAb (A21931) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



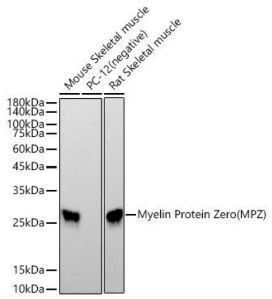
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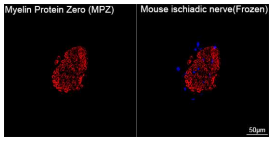
Confocal imaging of paraffin-embedded Mouse sciatic nerves tissue using Myelin Protein Zero (MPZ) Rabbit mAb (A21931, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



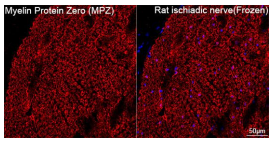
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Western blot analysis of various lysates using Myelin Protein Zero (MPZ) Rabbit mAb (A21931) at1:19000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Confocal imaging of frozen sections of Mouse ischiadic nerve tissue using Myelin Protein Zero (MPZ) Rabbit mAb (A21931, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Rat ischiadic nerve tissue using Myelin Protein Zero (MPZ) Rabbit mAb (A21931, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.