

For Research Use Only

MPZ / PO Polyclonal antibody, PBS Only

Catalog Number:10572-1-PBS



Basic Information

Catalog Number:

10572-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0848

GenBank Accession Number:

BC006491

GeneID (NCBI):

4359

UNIPROT ID:

P25189

Full Name:

myelin protein zero

Calculated MW:

28 kDa

Observed MW:

28-30 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

MPZ (myelin protein zero), also known as PO, is a transmembrane glycoprotein that belongs to the immunoglobulin supergene family. Synthesized by myelin-forming Schwann cells, MPZ is the major structural protein component of myelin in the peripheral nervous system. It is involved in the formation and maintenance of compact myelin and plays a role in the creation of an extracellular membrane face which guides the wrapping process and ultimately compacts adjacent lamellae. More than 120 mutations detected in the gene of MPZ cause various forms of hereditary neuropathy, which include Charcot-Marie-Tooth disease type 1B (CMT1B), CMT2, Dejerine-Sottas syndrome (DSS), and congenital hypomyelination neuropathy (CHN). This antibody can recognize endogenous MPZ and can be used as a marker of myelinating Schwann cells. MPZ can be detected the 25-30 kDa band by western blot. A band of 36 kDa could also be detected, which is a novel isoform of MPZ that contains an additional domain at the C-terminal (PMID: 22457349). It can also exist as a dimer (PMID: 12933931).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

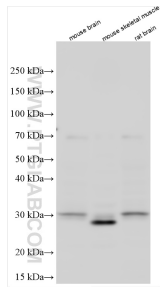
T: 4006900926

E: Proteintech-CN@ptglab.com

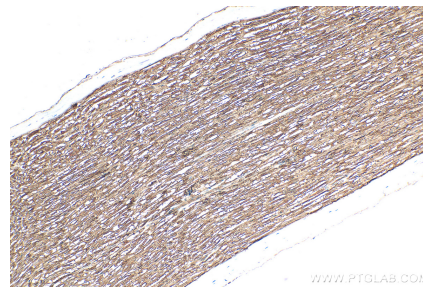
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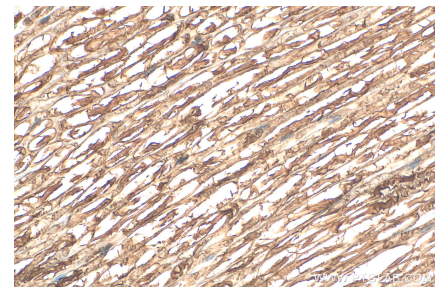
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10572-1-AP (MPZ / PO antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 10572-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat Ischiadic nerve tissue slide using 10572-1-AP (MPZ / PO antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10572-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat Ischiadic nerve tissue slide using 10572-1-AP (MPZ / PO antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 10572-1-PBS in a different storage buffer formulation.