MPZ Antibody / Myelin Protein Zero (RQ4363)

Catalog No.	Formulation	Size
RQ4363	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P25189
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This MPZ antibody is available for research use only.

Western blot testing of human U-87 MG cell lysate with MPZ antibody at 0.5ug/ml. Predicted molecular weight ~28 kDa.

Description

Myelin protein zero (P0, MPZ) is a glycoprotein which in humans is encoded by the MPZ gene. 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.

Application Notes

Optimal dilution of the MPZ antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids I30-R153 was used as the immunogen for the MPZ antibody.

Storage

After reconstitution, the MPZ antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.