

Datasheet for ABIN953494

anti-MPZ antibody**2** Images[Go to Product page](#)

Overview

Quantity:	0.2 mg
Target:	MPZ
Reactivity:	Human, Mouse
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This MPZ antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	Two antipeptide antibodies were generated in Chickens against sequences shared between the Mouse (NP_032649) and Human (NP_000521) gene products. Production: After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 0.2 mg/ml. Finally, equal volumes of both of these affinity purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Isotype:	Ig Fraction
Specificity:	Recognizes P0 Myelin Protein.
Purification:	Affinity Chromatography using a peptide column.

Target Details

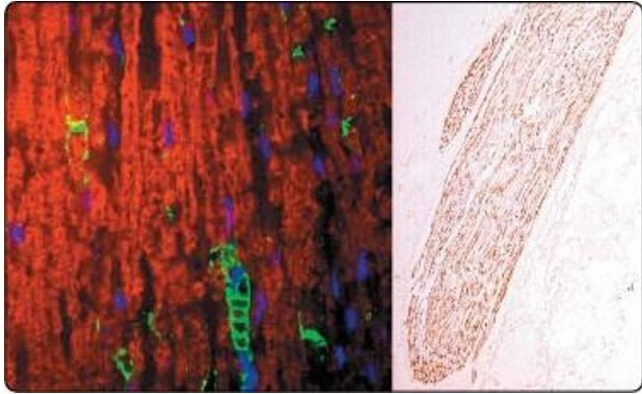
Target:	MPZ
Alternative Name:	MPZ (MPZ Products)
Background:	Human Myelin Protein Zero (Po) is a 28,400 dalton protein (258 amino acids) found in myelin of the PNS, but not the CNS. Expressed in myelinating Schwann cells, Po serves as a homophilic adhesion molecule, allowing adjacent laminae of the myelin sheath to undergo compaction. Po is also a marker of a subpopulation of migrating neural crest cells. Mutations of the MPZ gene product in humans is responsible for Charcot-Marie-Tooth type 1B neuropathies (HMSN1B).Synonyms: MPP, Myelin P0 protein, Myelin peripheral protein, Myelin protein zero
Gene ID:	4359
NCBI Accession:	NP_000521

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.2 mg/mL
Buffer:	10 mM PBS, pH 7.2 containing 0.02 % Sodium Azide as preservative.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted in the dark at 2-8 °C.



Immunofluorescence

Image 1. In the *Left panel* (a tissue section through an adult sciatic nerve), Po (green staining) can be seen in the myelin and Schwann cell processes surrounding the nodes of Ranvier. In this photomicrograph, Rabbit antibodies against LAMP (lysosome-associated membrane glycoprotein) (red staining) serves as the counterstain, and DAPI (blue staining) allows visualization of nuclei. In the *Right panel* (a lower power tissue section through an adult sciatic nerve), Po (brown staining) can be seen in all of the myelinating Schwann cells.



Western Blotting

Image 2.