

Product datasheet for **AP31820PU-N**

Myelin Protein Zero (MPZ) Chicken Polyclonal Antibody

Product data:

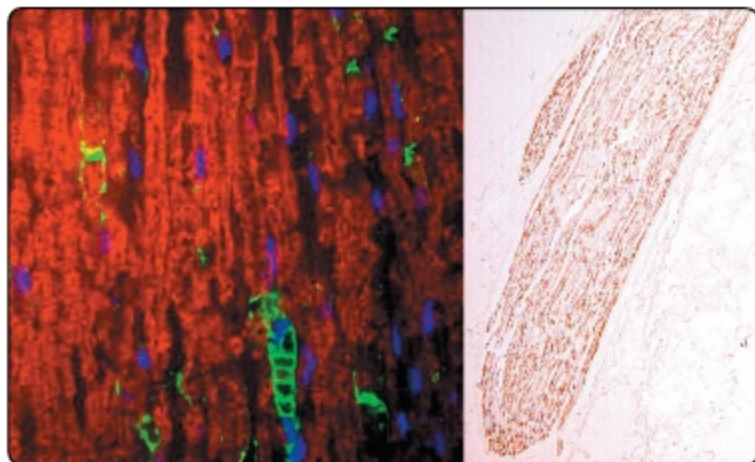
Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot. Immunocytochemistry. Immunohistochemistry. Recommended Dilutions: 1/2000-1/5000 for Western Blots. 1/1000-1/2000 for Immunohistochemistry and Immunocytochemistry using 2% paraformaldehyde-fixed tissues or cells. Quality Control: The antibody was analyzed by Immunohistochemistry (at a dilution of 1/2000) using Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) as the secondary reagent.
Reactivity:	Human, Mouse
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
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.
Specificity:	Recognizes P0 Myelin Protein.
Formulation:	10mM PBS, pH 7.2 containing 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified (filter sterilized) IgY fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using a peptide column.
Conjugation:	Unconjugated



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Storage:	Store the antibody undiluted in the dark at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	myelin protein zero
Database Link:	Entrez Gene 17528 Mouse Entrez Gene 4359 Human P25189
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:	Myelin P0 protein, Myelin protein zero, Myelin peripheral protein, MPP
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)

Product images:



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.