

Anti-P-Zero Myelin Protein (PZO) Antibody

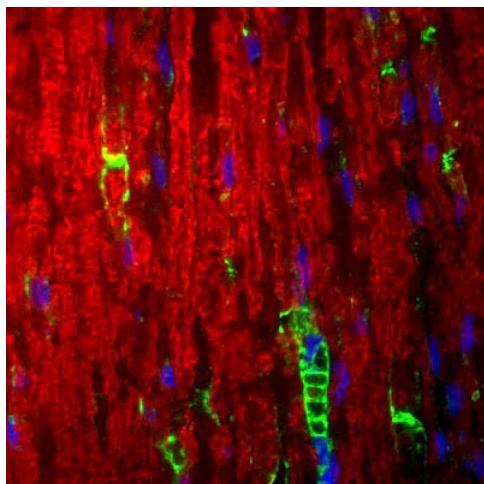


Product Details

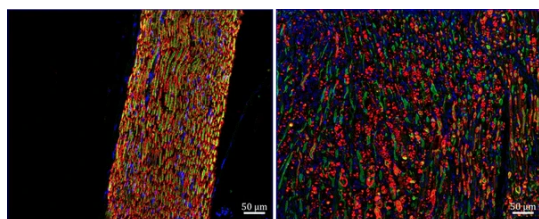
Available Variants	1000 µL (SKU:PZO) 100 µL (SKU:PZO-0020)
Isotype	IgY
Gene Name	MPZ
Host Species	Chicken
Concentration	200 µg/mL
Format	Affinity-Purified IgY
Physical State	Liquid
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with sodium azide (0.02%, w/v) added as a preservative.
Production Notes	Chickens were immunized with two synthetic peptide / keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the Po gene product, but are shared between the human (NP_000521, NCBI) and mouse (NP_032649, NCBI) sequences. 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 200 µg/mL. Finally, equal volumes of both of these affinitypurified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Applications	ICC, IHC, IP, WB
Dilution Ranges	WB: 1:10000-1:20000 IHC: 1:2000-1:5000 ICC: 1:2000-1:5000
Species Reactivity	Human, Mouse, Pig, Rat
Immunogen	Synthetic peptides

Molecular Weight	27 kDa
Quality Control	Both of these anti-peptide antibodies were analyzed by immunohisto-chemistry (at a dilution of 1:2000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent.
Storage	Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody.
Antibody Registry ID	AB_2313561
UniProt ID	<u>O95297</u>
Country of Origin	United States
Shipping	Ice packs
Expiration	12 months from receipt of product
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

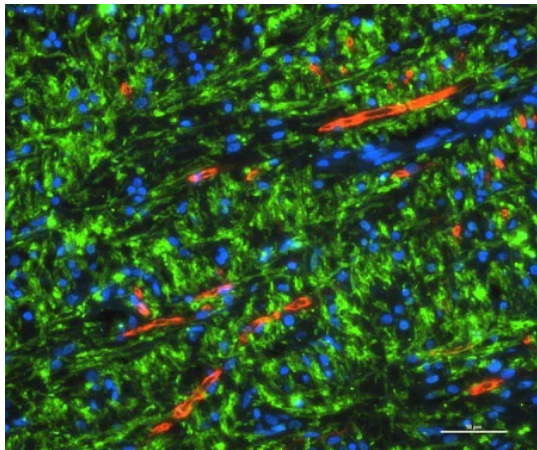
Product Images



In the image (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.



Immunofluorescence of a section of injured (right, crushed) and normal (left) mouse sciatic nerve labeled with Anti-P-Zero Myelin Protein (1:1000, red), colabeled with Anti-Neurofilament NF-L (green), and DAPI labeling nuclei. Scale bar, 50 μm; Magnification, 20×. Image kindly provided by Prem Kumar, Department of Orthopedics and Rehabilitation, Penn State University College of Medicine, John C. Elfar lab.



Remyelinated lesion of index case stained for PLP (green) and Pzero (Cat. PZO, red), showing that the myelin is distinctly from oligodendrocyte or Schwann cell origin, respectively. Image courtesy of Bryan Bollman, Washington University in St. Louis.

Product Page URL: www.antibodiesinc.com/products/anti-p-zero-myelin-protein-antibody-pzo



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