

Anti-Zebrafish P0/MPZ Antibody Picoband®

Catalog Number: AZA0A0R4IS04

About MPZ

Predicted to be involved in cell-cell adhesion via plasma-membrane adhesion molecules and myelination. Located in myelin sheath. Is expressed in several structures, including Rohon-Beard neurons; basal plate midbrain region; central nervous system; cranial nerve; and oligodendrocyte. Human ortholog(s) of this gene implicated in Charcot-Marie-Tooth disease (multiple). Orthologous to human MPZ (myelin protein zero).

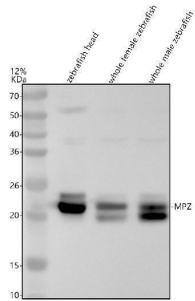
Overview

Product Name	Anti-Zebrafish P0/MPZ Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish P0/MPZ Antibody Picoband® catalog # AZA0A0R4IS04. Tested in WB, IHC, IF applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	A0A0R4IS04

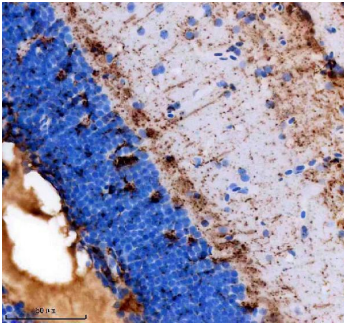
Technical Details

Immunogen	E.coli-derived Zebrafish P0/MPZ recombinant protein (Position: Q18-P206).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish Immunofluorescence, 5 ug/ml, Zebrafish

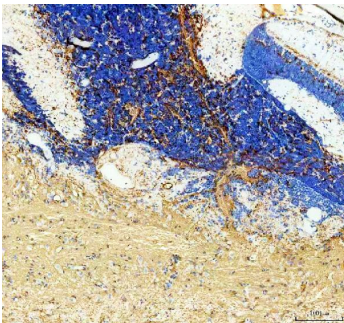
Anti-Zebrafish P0/MPZ Antibody Picoband® (AZA0A0R4IS04) Images



Western blot analysis of P0/MPZ using anti-P0/MPZ antibody (AZA0A0R4IS04). Electrophoresis was performed on a 12% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: zebrafish head tissue lysates, Lane 2: whole female zebrafish tissue lysates, Lane 3: whole male zebrafish tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-P0/MPZ antigen affinity purified polyclonal antibody (AZA0A0R4IS04) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for P0/MPZ at approximately 22 kDa. The expected band size for P0/MPZ is at 22 kDa.

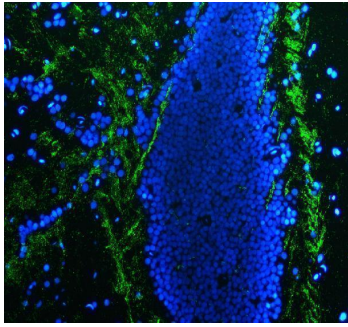


IHC analysis of P0/MPZ using anti-P0/MPZ antibody (AZA0A0R4IS04). P0/MPZ was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P0/MPZ Antibody (AZA0A0R4IS04) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

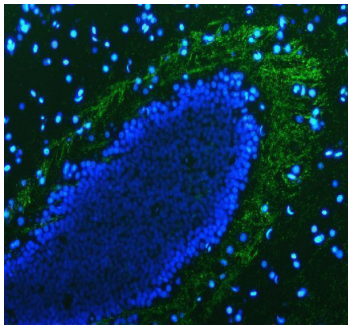


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IF analysis of P0/MPZ using anti-P0/MPZ antibody (AZA0A0R4IS04). P0/MPZ was detected in a paraffin-embedded section of adult zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was



blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-P0/MPZ Antibody (AZA0A0R4IS04) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF analysis of P0/MPZ using anti-P0/MPZ antibody (AZA0A0R4IS04). P0/MPZ was detected in a paraffin-embedded section of adult zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/mL rabbit anti-P0/MPZ Antibody (AZA0A0R4IS04) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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