

Anti-Zebrafish Flotillin 1/FLOT1 Antibody Picoband®

Catalog Number: AZF1QEW4

About FLOT1

FLOT1(Flotillin 1), is a protein that in humans is encoded by the FLOT1 gene. The International Radiation Hybrid Mapping Consortium mapped the FLOT1 gene to chromosome 6. Bickel et al.(1997) found that mouse Flot1 behaves as a resident integral membrane protein of caveolae. It consistently copurified with Flot2 and with caveolin-1 in the purification of caveolin-rich membranes. Hazarika et al.(1999) found that stable transfection of Flot1, which they called ESA/flotillin-2, in COS-1 cells induced filopodia formation and changed the epithelial morphology to that of neuronal cells. Santamaria et al.(2005) found that prostate tumor overexpressed gene-1 interacted with flotillin-1 in detergent-insoluble membrane fractions. Flotillin-1 colocalized with PTOV1 at the plasma membrane and in the nucleus, and it entered the nucleus concomitant with PTOV1 shortly before initiation of S phase.

Overview

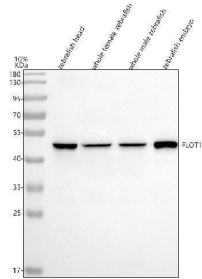
Product Name	Anti-Zebrafish Flotillin 1/FLOT1 Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish Flotillin 1/FLOT1 Antibody Picoband® catalog # AZF1QEW4. Tested in WB, IHC applications. This antibody reacts with Zebrafish. The brand Picoband indicates this is a premium 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	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	F1QEW4

Technical Details

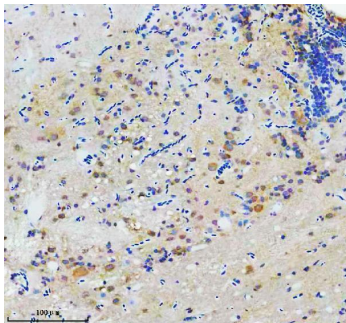
Immunogen	E.coli-derived zebrafish Flotillin 1/FLOT1 recombinant protein (Position: E95-L411).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish

Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

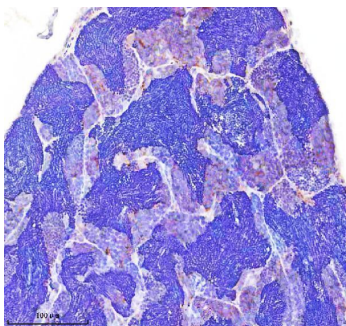
Anti-Zebrafish Flotillin 1/FLOT1 Antibody Picoband® (AZF1QEW4) Images



Western blot analysis of Flotillin 1/FLOT1 using anti-Flotillin 1/FLOT1 antibody (AZF1QEW4). Electrophoresis was performed on a 10% 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, Lane 4: zebrafish embryo 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-Flotillin 1/FLOT1 antigen affinity purified polyclonal antibody (AZF1QEW4) 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 Flotillin 1/FLOT1 at approximately 47 kDa. The expected band size for Flotillin 1/FLOT1 is at 47 kDa.



IHC analysis of Flotillin 1/FLOT1 using anti-Flotillin 1/FLOT1 antibody (AZF1QEW4). Flotillin 1/FLOT1 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-Flotillin 1/FLOT1 Antibody (AZF1QEW4) 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.



IHC analysis of Flotillin 1/FLOT1 using anti-Flotillin 1/FLOT1 antibody (AZF1QEW4). Flotillin 1/FLOT1 was detected in a paraffin-embedded section of zebrafish testis 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-Flotillin 1/FLOT1 Antibody (AZF1QEW4) 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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