

Anti-Zebrafish MC4R Antibody Picoband®

Catalog Number: AZB0V1P1

About MC4R

Enables melanocortin receptor activity. Involved in energy homeostasis and energy reserve metabolic process. Acts upstream of or within adenylate cyclase-activating G protein-coupled receptor signaling pathway; negative regulation of feeding behavior; and regulation of growth. Predicted to be located in membrane. Predicted to be active in cytoplasm and plasma membrane. Is expressed in brain; female organism; gonad; myotome; and primary motor neurons. Human ortholog(s) of this gene implicated in morbid obesity and obesity. Orthologous to human MC4R (melanocortin 4 receptor).

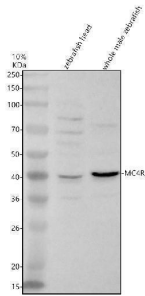
Overview

Product Name	Anti-Zebrafish MC4R Antibody Picoband®
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish MC4R Antibody Picoband® catalog # AZB0V1P1. 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	B0V1P1

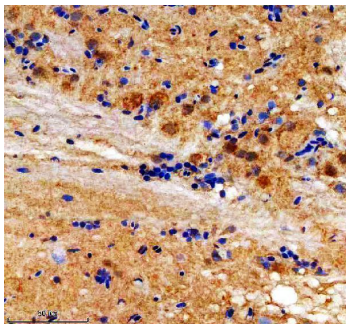
Technical Details

Immunogen	E.coli-derived Zebrafish MC4R recombinant protein (Position: M1-S125).
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, 2-5 ug/ml, Zebrafish

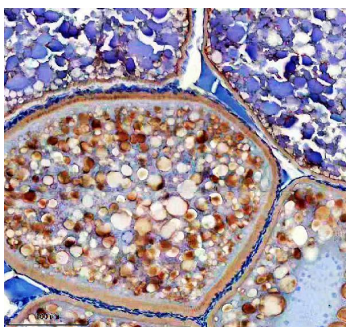
Anti-Zebrafish MC4R Antibody Picoband® (AZB0V1P1) Images



Western blot analysis of MC4R using anti-MC4R antibody (AZB0V1P1). 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 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-MC4R antigen affinity purified polyclonal antibody (AZB0V1P1) 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 MC4R at approximately 40 kDa. The expected band size for MC4R is at 36 kDa.



IHC analysis of MC4R using anti-MC4R antibody (AZB0V1P1). MC4R 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-MC4R Antibody (AZB0V1P1) 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 MC4R using anti-MC4R antibody (AZB0V1P1). MC4R was detected in a paraffin-embedded section of zebrafish ovary 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-MC4R Antibody (AZB0V1P1) 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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