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antibody and ELISA experts

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Anti-Zebrafish MMP13A Antibody Picoband®

Catalog Number: AZF1QCX8

About MMP13A

Predicted to enable metalloendopeptidase activity and zinc ion binding activity. Acts upstream of or within macrophage chemotaxis. Predicted to be located in extracellular matrix. Is expressed in several structures, including extension; heart; intermediate cell mass of mesoderm; leukocyte; and post-vent region. Human ortholog(s) of this gene implicated in anodontia; artery disease (multiple); bone disease (multiple); and ovarian carcinoma. Orthologous to human MMP13 (matrix metallopeptidase 13).

Overview

Product Name	Anti-Zebrafish MMP13A Antibody Picoband®
Reactive Species	Zebrafish
Description	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.Immunogen affinity purified.Predicted to enable metalloendopeptidase activity and zinc ion binding activity. Acts upstream of or within macrophage chemotaxis. Predicted to be located in extracellular matrix. Is expressed in several structures, including extension; heart; intermediate cell mass of mesoderm; leukocyte; and post-vent region. Human ortholog(s) of this gene implicated in anodontia; artery disease (multiple); bone disease (multiple); and ovarian carcinoma. Orthologous to human MMP13 (matrix metallopeptidase 13).E.coli-derived Zebrafish MMP13A recombinant protein (Position: D110-K476)anti-zebrafish-mmp13a-antibody-azf1qcx8-bosterAnti-Zebrafish MMP13A Antibody Picoband®Boster Bio Anti-Zebrafish MMP13A Antibody Picoband® catalog # AZF1QCX8. 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 Na2HPO4.
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	F1QCX8

Technical Details

Immunogen	E.coli-derived Zebrafish MMP13A recombinant protein (Position: D110-K476)
Form	Lyophilized

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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

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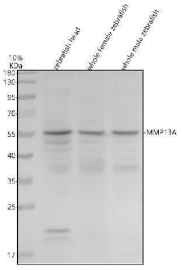
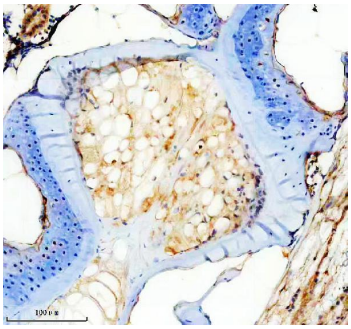
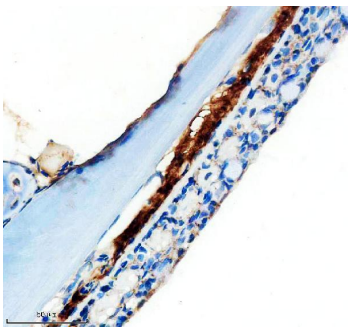
Anti-Zebrafish MMP13A Antibody Picoband® (AZF1QCX8) Images



Western blot analysis of MMP13A using anti-MMP13A antibody (AZF1QCX8). 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.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-MMP13A antigen affinity purified polyclonal antibody (AZF1QCX8) 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 MMP13A at approximately 54 kDa. The expected band size for MMP13A is at 54 kDa.



IHC analysis of MMP13A using anti-MMP13A antibody (AZF1QCX8). MMP13A was detected in a paraffin-embedded section of zebrafish spinal column 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-MMP13A Antibody (AZF1QCX8) 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 MMP13A using anti-MMP13A antibody (AZF1QCX8). MMP13A was detected in a paraffin-embedded section of zebrafish skin 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-MMP13A Antibody (AZF1QCX8) 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 MMP13A using anti-MMP13A antibody (AZF1QCX8). MMP13A was detected in a paraffin-embedded section of zebrafish spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10%

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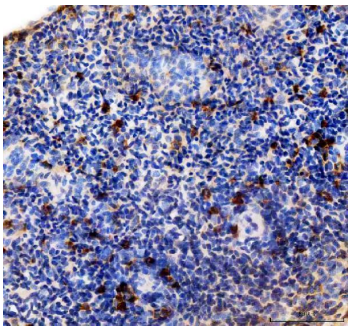

goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-MMP13A Antibody (AZF1QCX8) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Anti-Zebrafish MMP13A Antibody

For Research Use Only. Not for use in diagnostic procedures.