BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish STAT3 Antibody Picoband®

Catalog Number: AZA0A8M2BAX1

About STAT3

Predicted to enable DNA-binding transcription factor activity, RNA polymerase II-specific and RNA polymerase II cis-regulatory region sequence-specific DNA binding activity. Acts upstream of or within several processes, including embryonic morphogenesis; liver development; and neuron development. Predicted to be part of RNA polymerase II transcription regulator complex. Predicted to be active in cytoplasm and nucleus. Is expressed in several structures, including blastomere; bone tissue; epidermal superficial stratum; head; and nervous system. Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); carcinoma (multiple); hyper IgE recurrent infection syndrome 1; reproductive organ cancer (multiple); and type 2 diabetes mellitus. Orthologous to human STAT3 (signal transducer and activator of transcription 3).

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Overview

Product Name	Anti-Zebrafish STAT3 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 DNA-binding transcription factor activity, RNA polymerase II-specific and RNA polymerase II cis-regulatory region sequence-specific DNA binding activity. Acts upstream of or within several processes, including embryonic morphogenesis; liver development; and neuron development. Predicted to be part of RNA polymerase II transcription regulator complex. Predicted to be active in cytoplasm and nucleus. Is expressed in several structures, including blastomere; bone tissue; epidermal superficial stratum; head; and nervous system. Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); carcinoma (multiple); hyper IgE recurrent infection syndrome 1; reproductive organ cancer (multiple); and type 2 diabetes mellitus. Orthologous to human STAT3 (signal transducer and activator of transcription 3).E.coli-derived Zebrafish STAT3 recombinant protein (Position: K64-S335)anti-zebrafish-stat3-antibody-aza0a8m2bax1-bosterAnti-Zebrafish STAT3 Antibody Picoband®Boster Bio Anti-Zebrafish STAT3 Antibody Picoband® catalog # AZA0A8M2BAX1. 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 Na2HPO4.

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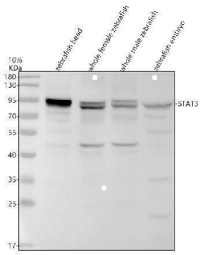
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	A0A8M2BAX1

Technical Details

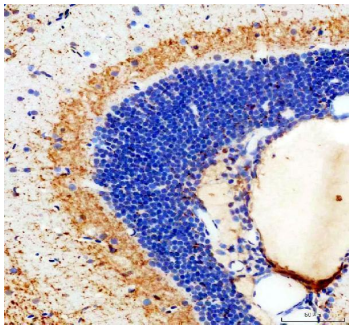
Immunogen	E.coli-derived Zebrafish STAT3 recombinant protein (Position: K64-S335)
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Zebrafish Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish Immunofluorescence, 2 ug/ml, Zebrafish

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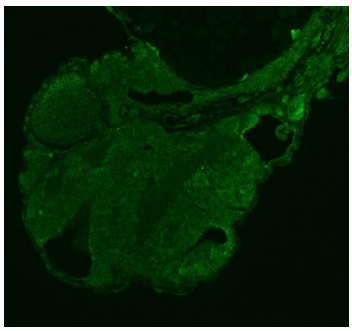
Anti-Zebrafish STAT3 Antibody Picoband® (AZA0A8M2BAX1) Images



Western blot analysis of STAT3 using anti-STAT3 antibody (AZA0A8M2BAX1). 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-STAT3 antigen affinity purified polyclonal antibody (AZA0A8M2BAX1) 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 STAT3 at approximately 91 kDa. The expected band size for STAT3 is at 91 kDa.



IHC analysis of STAT3 using anti-STAT3 antibody (AZA0A8M2BAX1). STAT3 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-STAT3 Antibody (AZA0A8M2BAX1) 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.



IF analysis of STAT3 using anti-STAT3 antibody (AZA0A8M2BAX1). STAT3 was detected in a paraffin-embedded section of zebrafish embryo 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-STAT3 Antibody (AZA0A8M2BAX1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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