BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Zebrafish KITA Antibody Picoband®

Catalog Number: AZQ8JFR5

About KITA

Predicted to enable growth factor binding activity and transmembrane receptor protein tyrosine kinase activity. Acts upstream of or within several processes, including melanocyte apoptotic process; melanocyte differentiation; and stem cell fate commitment. Predicted to be located in membrane. Predicted to be part of receptor complex. Predicted to be active in plasma membrane. Is expressed in several structures, including digestive system; gonad; mesoderm; nervous system; and neural crest. Human ortholog(s) of this gene implicated in several diseases, including gastrointestinal stromal tumor; germ cell cancer (multiple); mastocytosis; piebaldism; and renal cell carcinoma. Orthologous to human KIT (KIT proto-oncogene, receptor tyrosine kinase).

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Overview

Product Name	Anti-Zebrafish KITA 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 growth factor binding activity and transmembrane receptor protein tyrosine kinase activity. Acts upstream of or within several processes, including melanocyte apoptotic process; melanocyte differentiation; and stem cell fate commitment. Predicted to be located in membrane. Predicted to be part of receptor complex. Predicted to be active in plasma membrane. Is expressed in several structures, including digestive system; gonad; mesoderm; nervous system; and neural crest. Human ortholog(s) of this gene implicated in several diseases, including gastrointestinal stromal tumor; germ cell cancer (multiple); mastocytosis; piebaldism; and renal cell carcinoma. Orthologous to human KIT (KIT proto-oncogene, receptor tyrosine kinase).E.coli-derived Zebrafish KITA recombinant protein (Position: R22-N946)anti-zebrafish-kita-antibody-azq8jfr5-bosterAnti-Zebrafish KITA Antibody Picoband®Boster Bio Anti-Zebrafish KITA Antibody Picoband® catalog # AZQ8JFR5. 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.

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Host	Rabbit
Uniprot ID	Q8JFR5

Technical Details

Immunogen	E.coli-derived Zebrafish KITA recombinant protein (Position: R22-N946)
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

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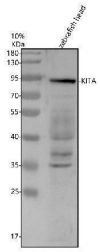
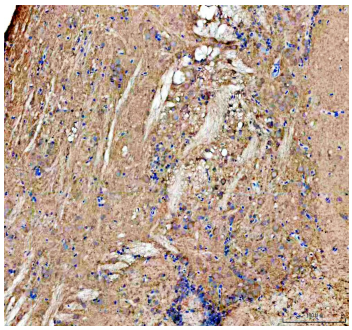
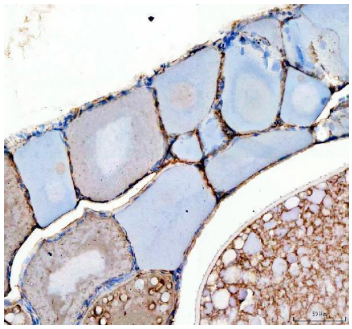
Anti-Zebrafish KITA Antibody Picoband® (AZQ8JFR5) Images



Western blot analysis of KITA using anti-KITA antibody (AZQ8JFR5). 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.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-KITA antigen affinity purified polyclonal antibody (AZQ8JFR5) 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 KITA at approximately 95 kDa. The expected band size for KITA is at 109 kDa.



IHC analysis of KITA using anti-KITA antibody (AZQ8JFR5). KITA 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-KITA Antibody (AZQ8JFR5) 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 KITA using anti-KITA antibody (AZQ8JFR5). KITA 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-KITA Antibody (AZQ8JFR5) 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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