

Anti-Zebrafish RAD51 Antibody Picoband®

Catalog Number: AZQ5TYR1

About RAD51

Predicted to enable DNA binding activity and catalytic activity, acting on DNA. Acts upstream of or within several processes, including hematopoietic stem cell proliferation; response to cadmium ion; and response to methylmercury. Predicted to be located in nucleus. Predicted to be active in condensed nuclear chromosome. Is expressed in brain; gill; liver; musculature system; and testis. Used to study Fanconi anemia. Human ortholog(s) of this gene implicated in Fanconi anemia complementation group R; breast cancer; congenital mirror movement disorder; and ovarian cancer. Orthologous to human RAD51 (RAD51 recombinase).

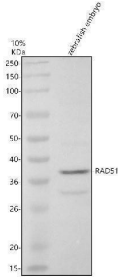
Overview

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|----------------------|---|
| Product Name | Anti-Zebrafish RAD51 Antibody Picoband® |
| Reactive Species | Zebrafish |
| Description | Boster Bio Anti-Zebrafish RAD51 Antibody Picoband® catalog # AZQ5TYR1. 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 | Q5TYR1 |

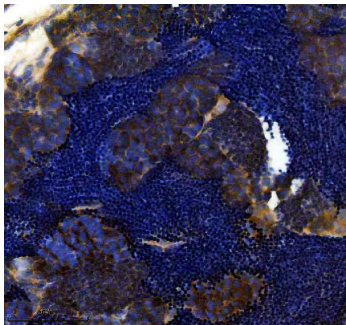
Technical Details

| | |
|---------------------|---|
| Immunogen | E.coli-derived Zebrafish RAD51 recombinant protein (Position: E18-D340). |
| 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 RAD51 Antibody Picoband® (AZQ5TYR1) Images



Western blot analysis of RAD51 using anti-RAD51 antibody (AZQ5TYR1). 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 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-RAD51 antigen affinity purified polyclonal antibody (AZQ5TYR1) 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 RAD51 at approximately 38 kDa. The expected band size for RAD51 is at 26 kDa.



IHC analysis of RAD51 using anti-RAD51 antibody (AZQ5TYR1). RAD51 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-RAD51 Antibody (AZQ5TYR1) 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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Anti-Zebrafish RAD51 Antibody

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