BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Zebrafish CYP1B1 Antibody Picoband®

**Catalog Number:** AZB8JKD5

## About CYP1B1

Predicted to enable oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen and steroid hydroxylase activity. Acts upstream of or within eye development. Predicted to be located in endoplasmic reticulum membrane. Predicted to be active in mitochondrion. Is expressed in several structures, including digestive system; heart; immature eye; nervous system; and pleuroperitoneal region. Human ortholog(s) of this gene implicated in Peters anomaly; anterior segment dysgenesis 6; breast cancer; glaucoma (multiple); and lung squamous cell carcinoma. Orthologous to human CYP1B1 (cytochrome P450 family 1 subfamily B member 1).

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## Overview

| | |
|---|---|
| Product Name | Anti-Zebrafish CYP1B1 Antibody Picoband® |
| Reactive Species | Zebrafish |
| Description | Boster Bio Anti-Zebrafish CYP1B1 Antibody Picoband® catalog # AZB8JKD5. 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. |
| 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 | B8JKD5 |

## Technical Details

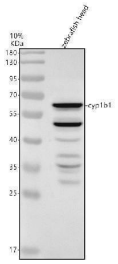
| | |
|---|---|
| Immunogen | E.coli-derived Zebrafish CYP1B1 recombinant protein (Position: Q51-D526). |

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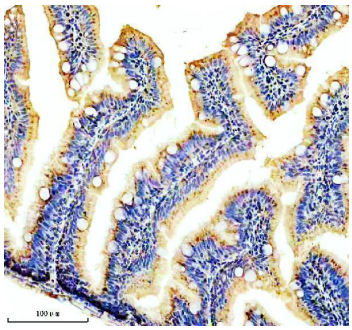
| | |
|---|---|
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Zebrafish<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish<br>Immunofluorescence, 2 ug/ml, Zebrafish |

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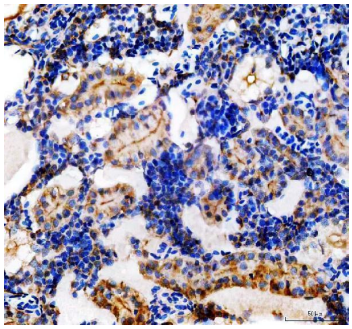
# Anti-Zebrafish CYP1B1 Antibody Picoband® (AZB8JKD5) Images



Western blot analysis of CYP1B1 using anti-CYP1B1 antibody (AZB8JKD5). 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-CYP1B1 antigen affinity purified polyclonal antibody (AZB8JKD5) 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 CYP1B1 at approximately 60 kDa. The expected band size for CYP1B1 is at 59 kDa.



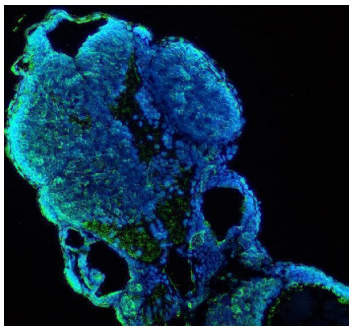
IHC analysis of CYP1B1 using anti-CYP1B1 antibody (AZB8JKD5). CYP1B1 was detected in a paraffin-embedded section of zebrafish colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CYP1B1 Antibody (AZB8JKD5) 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 CYP1B1 using anti-CYP1B1 antibody (AZB8JKD5). CYP1B1 was detected in a paraffin-embedded section of zebrafish kidney 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-CYP1B1 Antibody (AZB8JKD5) 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 CYP1B1 using anti-CYP1B1 antibody (AZB8JKD5). CYP1B1 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

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ug/mL rabbit anti-CYP1B1 Antibody (AZB8JKD5) 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. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

## Anti-Zebrafish CYP1B1 Antibody

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