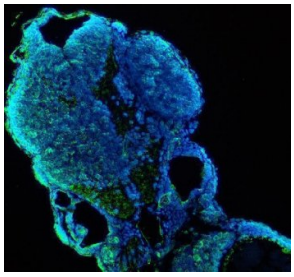
Zebrafish CYP1B1 Antibody (RZ1346)

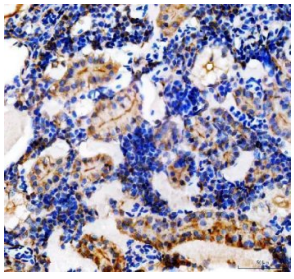
Catalog No.	Formulation	Size
RZ1346	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

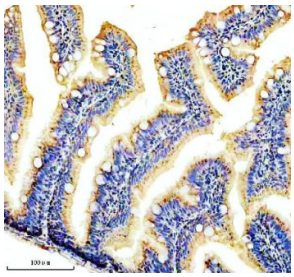
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	B8JKD5
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml
Limitations	This Zebrafish CYP1B1 Antibody is available for research use only.



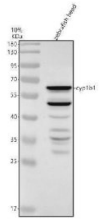
Zebrafish CYP1B1 Antibody IF. Immunofluorescence analysis of CYP1B1 using anti-CYP1B1 antibody. CYP1B1 was detected in a paraffin-embedded section of zebrafish embryo tissue. Heat mediated antigen retrieval was performed in EDTA buffer. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5 ug/ml rabbit anti-CYP1B1 Antibody overnight at 4oC. DyLight-488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37oC. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Zebrafish CYP1B1 Antibody IHC. Immunohistochemistry analysis of CYP1B1 using anti-CYP1B1 antibody. CYP1B1 was detected in a paraffin-embedded section of zebrafish kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CYP1B1 Antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using DAB as the chromogen.



Zebrafish CYP1B1 Antibody IHC. Immunohistochemistry analysis of CYP1B1 using anti-CYP1B1 antibody. CYP1B1 was detected in a paraffin-embedded section of zebrafish colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-CYP1B1 Antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using DAB as the chromogen.



Zebrafish CYP1B1 Antibody WB. Western blot analysis of CYP1B1 using anti-CYP1B1 antibody. Electrophoresis was performed on a 10% SDS-PAGE 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 antibody at 0.5 ug/ml overnight at 4oC, 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 WB. Western blotting Substrate 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.

Description

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).

Application Notes

The optimal working dilution of the Zebrafish CYP1B1 Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish CYP1B1 recombinant protein (amino acids Q51-D526) was used as the immunogen for the Zebrafish CYP1B1 Antibody.

Storage

After reconstitution, the Zebrafish CYP1B1 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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