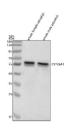


# Zebrafish Cyp26a1 Antibody / Cytochrome P450 26A1 (RZ1216)

Catalog No.	Formulation	Size
RZ1216	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P79739
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Cyp26a1 antibody is available for research use only.



Western blot analysis of Cyp26a1 protein using Zebrafish Cyp26a1 antibody and 1) whole female zebrafish tissue lysates and 2) whole male zebrafish tissue lysates. Predicted molecular weight ~56 kDa.

# **Description**

Cyp26a1, or cytochrome P four five zero family twenty six subfamily A polypeptide one, is an enzyme that plays a central role in regulating retinoic acid levels during vertebrate development. In zebrafish, Cyp26a1 is responsible for the metabolic breakdown of retinoic acid, ensuring the proper spatial and temporal control of retinoic acid signaling.

Retinoic acid is a derivative of vitamin A that functions as a key signaling molecule in embryogenesis, influencing processes such as axis formation, organ development, and cell differentiation. Cyp26a1 expression is tightly controlled and occurs in specific patterns that help shape retinoic acid gradients across developing tissues. In zebrafish embryos, Cyp26a1 is particularly important for the formation of the head, hindbrain, and somites.

Loss of Cyp26a1 function disrupts retinoic acid homeostasis, leading to developmental abnormalities. Because of this, zebrafish Cyp26a1 is widely used as a model for studying retinoid metabolism, embryonic patterning, and the effects of vitamin A derivatives. It is also valuable in toxicological research for identifying compounds that interfere with retinoic acid signaling pathways.

## **Application Notes**

Optimal dilution of the Zebrafish Cyp26a1 antibody should be determined by the researcher.

#### **Immunogen**

E. coli-derived zebrafish Cyp26a1 recombinant protein (amino acids E56-R425) was used as the immunogen for the Zebrafish Cyp26a1 antibody.

#### **Storage**

After reconstitution, the Zebrafish Cyp26a1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.