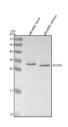


# Zebrafish Dlx2a Antibody / Dlx2 (RZ1218)

Catalog No.	Formulation	Size
RZ1218	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	P50574
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Dlx2a antibody is available for research use only.



Western blot analysis of Dlx2a protein using Zebrafish Dlx2a antibody and 1) zebrafish head tissue lysates and 2) zebrafish embryo tissue lysates. Predicted molecular weight ~30 kDa.

# **Description**

Dlx2a, or distal less homeobox two a, is a transcription factor that belongs to the Dlx family of homeodomain proteins. In zebrafish, Dlx2a plays a critical role in the development of the nervous system and craniofacial structures. It is particularly important for the differentiation and migration of neural crest cells, which give rise to a wide range of tissues including cartilage, bone, and peripheral neurons.

During embryogenesis, Dlx2a is expressed in the developing forebrain, pharyngeal arches, and olfactory placodes. It functions by regulating gene expression programs that control patterning and morphogenesis of the head and facial structures. Dlx2a is also involved in the formation of inhibitory neurons in the forebrain, contributing to the proper

development of neural circuits.

Zebrafish Dlx2a is widely used as a molecular marker for neural crest cells and for studying the genetic pathways that underlie craniofacial development and neural differentiation. Because of its high conservation with mammalian Dlx genes, it is also valuable for modeling congenital disorders affecting the face and brain, and for investigating the regulatory networks that guide vertebrate head formation.

#### **Application Notes**

Optimal dilution of the Zebrafish Dlx2a antibody should be determined by the researcher.

## **Immunogen**

E. coli-derived zebrafish Dlx2a recombinant protein (amino acids D11-N261) was used as the immunogen for the Zebrafish Dlx2a antibody.

#### **Storage**

After reconstitution, the Zebrafish Dlx2a antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.