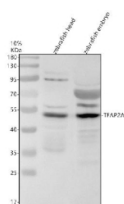


Zebrafish Tfap2a Antibody / Ap2 alpha (RZ1190)

Catalog No.	Formulation	Size
RZ1190	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	A0A2R8QRQ5
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Tfap2a antibody is available for research use only.



Western blot analysis of Tfap2a protein using Zebrafish Tfap2a antibody and 1) zebrafish head tissue lysates and 2) zebrafish embryo tissue lysates. Predicted molecular weight ~50 kDa.

Description

Transcription factor AP-2 alpha (Tfap2a) is a DNA-binding transcription factor that plays a critical role in embryonic development by regulating genes involved in cell fate determination, proliferation, and differentiation. In zebrafish (*Danio rerio*), Tfap2a is essential for the proper development of the neural crest, craniofacial structures, epidermis, and parts of the central nervous system.

Tfap2a is expressed early in development, particularly in the neural plate border and migrating neural crest cells. It functions by activating or repressing target genes involved in ectodermal and neural crest lineage specification. Loss-of-function studies in zebrafish have demonstrated that tfap2a is required for cranial neural crest formation, melanocyte

differentiation, and proper facial cartilage patterning.

Given its high degree of conservation and developmental importance, zebrafish Tfap2a is widely used as a model to study craniofacial anomalies, neural crest biology, and transcriptional regulation during vertebrate embryogenesis. It is also a valuable marker for identifying early ectodermal and neural crest derivatives.

Application Notes

Optimal dilution of the Zebrafish Tfap2a antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Tfap2a recombinant protein (amino acids M1-K450) was used as the immunogen for the Zebrafish Tfap2a antibody.

Storage

After reconstitution, the Zebrafish Tfap2a antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.