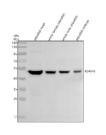


Zebrafish Gata3 Antibody / GATA binding factor 3 (RZ1192)

Catalog No.	Formulation	Size
RZ1192	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	Q91428
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Gata3 antibody is available for research use only.



Western blot analysis of Gata3 protein using Zebrafish Gata3 antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish and 4) zebrafish embryo tissue lysate. Predicted molecular weight ~48 kDa.

Description

GATA-binding protein 3 (Gata3) is a zinc finger transcription factor of the GATA family that regulates gene expression during embryonic development and cellular differentiation. In zebrafish (Danio rerio), Gata3 plays essential roles in the development of the nervous system, kidney (pronephros), inner ear, and components of the immune system.

Gata3 is expressed early in development and is particularly active in neural crest derivatives, including the sympathetic nervous system, sensory neurons, and otic vesicle. It is also involved in nephrogenesis, where it regulates the patterning and differentiation of the pronephric duct and tubules. Functional studies have shown that loss of gata3 disrupts normal development of the auditory system, leading to defects in otic vesicle morphology and neurosensory patterning.

Due to its evolutionary conservation and regulatory importance, zebrafish Gata3 serves as a valuable model for studying neuronal specification, ear development, and renal morphogenesis, as well as immune system developmentâ€Â"particularly T-cell differentiation in vertebrates.

Application Notes

Optimal dilution of the Zebrafish Gata3 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Gata3 recombinant protein (amino acids M1-S432) was used as the immunogen for the Zebrafish Gata3 antibody.

Storage

After reconstitution, the Zebrafish Gata3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.