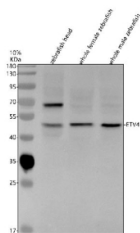


Zebrafish Etv4 Antibody / ETS translocation variant 4 / Pea3 (RZ1178)

Catalog No.	Formulation	Size
RZ1178	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	Q9PUQ1
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Etv4 antibody is available for research use only.



Western blot analysis of Etv4 protein using Zebrafish Etv4 antibody and 1) zebrafish head, 2) whole female zebrafish and 3) whole male zebrafish lysate. Predicted molecular weight ~55 kDa.

Description

Ets variant 4 (Etv4), also known as Pea3, is a member of the ETS family of transcription factors characterized by a conserved ETS DNA-binding domain that recognizes purine-rich sequences in target gene promoters. In zebrafish (*Danio rerio*), *etv4* plays an essential role in embryonic development, particularly in processes regulated by fibroblast growth factor (FGF) signaling.

Etv4 functions as a key downstream effector of FGF signaling pathways, mediating transcriptional responses critical for tissue patterning and organogenesis. During zebrafish embryogenesis, *etv4* is expressed in a variety of dynamic domains including the posterior mesoderm, developing somites, neural crest, and the pronephros. It acts in concert with other

Pea3 subfamily members such as Etv5 to regulate genes involved in cell migration, proliferation, and differentiation.

Zebrafish etv4 has been extensively studied in the context of limb and fin development, neuromast formation, and branchial arch morphogenesis, making it a useful molecular marker for FGF activity and mesenchymal-epithelial interactions. Disruption of etv4 expression or function impairs normal developmental processes, underscoring its regulatory importance.

Due to its conserved function and regulated expression, zebrafish Etv4 serves as a valuable model for studying ETS transcription factors in vertebrate development and disease pathways, including cancer metastasis and skeletal disorders.

Application Notes

Optimal dilution of the Zebrafish Etv4 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Etv4 recombinant protein (amino acids M1-E333) was used as the immunogen for the Zebrafish Etv4 antibody.

Storage

After reconstitution, the Zebrafish Etv4 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.