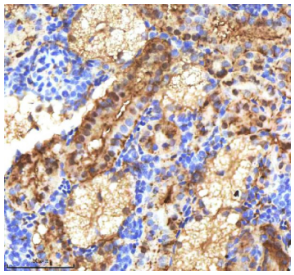
Zebrafish Etv2 Antibody / ETS variant transcription factor 2 / Etsrp (RZ1222)

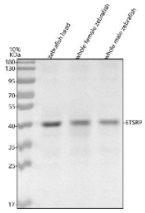
Catalog No.	Formulation	Size
RZ1222	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	A0A2R8Q5A3
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Zebrafish Etv2 antibody is available for research use only.



IHC staining of FFPE zebrafish kidney tissue with Etv2 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot analysis of Etv2 protein using Zebrafish Etv2 antibody and 1) zebrafish head, 2) whole female zebrafish and 3) whole male zebrafish tissue lysate. Predicted molecular weight ~40 kDa.

Description

ETS variant transcription factor 2, also known as Etv2, is a member of the ETS family of transcription factors that are critical regulators of gene expression during embryonic development. In zebrafish, Etv2 plays a key role in the early specification of both vascular and hematopoietic lineages and is considered a master regulator of endothelial and blood cell fate.

Etv2 is expressed early in the lateral plate mesoderm and is one of the first transcription factors to mark cells destined to become vascular endothelial cells and hematopoietic progenitors. It activates a network of downstream genes required for the formation of blood vessels and blood cells, including regulators of endothelial identity and vascular integrity. Etv2 also works in coordination with other transcription factors to initiate and stabilize lineage commitment.

Loss of Etv2 function in zebrafish results in the absence of major blood vessels and blood cells, underscoring its essential role in mesodermal patterning. Because of its early and transient expression during development, zebrafish Etv2 is a valuable tool for studying the genetic control of vasculogenesis, hematopoiesis, and mesodermal differentiation.

Etv2 is also widely used in regenerative medicine and stem cell research as a reprogramming factor capable of inducing endothelial identity. Its functional conservation across species makes zebrafish an ideal model for investigating cardiovascular and blood development, as well as for screening drugs that target vascular and hematopoietic pathways.

Application Notes

Optimal dilution of the Zebrafish Etv2 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Etv2 recombinant protein (amino acids M1-I218) was used as the immunogen for the Zebrafish Etv2 antibody.

Storage

After reconstitution, the Zebrafish Etv2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.