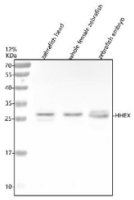
Zebrafish Hhex Antibody / Hex / Hematopoietically expressed homeobox protein (RZ1229)

Catalog No.	Formulation	Size
RZ1229	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	Q9IAV3
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Hhex antibody is available for research use only.



Western blot analysis of Hhex protein using Zebrafish Hhex antibody and 1) zebrafish head, 2) whole female zebrafish and 3) zebrafish embryo tissue lysate. Predicted molecular weight ~26 kDa.

Description

Hhex, or hematopoietically expressed homeobox, is a transcription factor that plays a critical role in early embryonic development, especially in the formation of the forebrain, thyroid, liver, and pancreas. In zebrafish, Hhex is essential for the specification and differentiation of endodermal and anterior mesodermal tissues.

Hhex is expressed early in the developing embryo, particularly in regions that give rise to the anterior foregut and associated organs. It regulates the expression of key developmental genes involved in organogenesis and is required for proper morphogenesis of the thyroid gland and liver. In the developing brain, Hhex also contributes to the patterning of

forebrain structures.

Loss of Hhex function in zebrafish leads to defects in anterior endoderm formation, impaired thyroid and liver development, and abnormalities in forebrain organization. Because of its conserved function in vertebrate development, zebrafish Hhex serves as a valuable model for understanding congenital organ defects, endodermal lineage specification, and early tissue patterning.

Zebrafish Hhex is widely used in developmental biology, stem cell research, and disease modeling, particularly in studies focused on endocrine and hepatic organ development.

Application Notes

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

Immunogen

E. coli-derived zebrafish Hhex recombinant protein (amino acids Y60-L228) was used as the immunogen for the Zebrafish Hhex antibody.

Storage

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