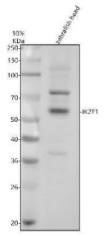
Zebrafish IKZF1 Antibody / Ikaros Family Zinc Finger 1 Antibody (RZ1420)

Catalog No.	Formulation	Size
RZ1420	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	A0A8M2B2X4
Applications	Western blot: 0.5-1ug/ml
Limitations	This Zebrafish IKZF1 Antibody / Ikaros Family Zinc Finger 1 Antibody is available for research use only.



Zebrafish IKZF1 Antibody Head WB. Western blot analysis of zebrafish head tissue lysate using Zebrafish IKZF1 Antibody / Ikaros Family Zinc Finger 1 Antibody demonstrates a prominent immunoreactive band at approximately 59 kDa, consistent with the expected molecular weight of IKZF1. Ikaros Family Zinc Finger 1 (IKZF1) is a zinc finger transcription factor that functions as a key regulator of hematopoietic development, lymphoid differentiation, and transcriptional control of immune-related gene expression. The observed band supports expression of IKZF1 within zebrafish head tissue and demonstrates the utility of this antibody for western blot detection of endogenous IKZF1. Electrophoresis was performed on a 10% SDS-PAGE gel under reducing conditions followed by nitrocellulose transfer and ECL detection.

Description

Zebrafish IKZF1 Antibody / Ikaros Family Zinc Finger 1 Antibody recognizes IKZF1, a zinc finger DNA-binding transcription factor that functions as a master regulator of hematopoietic and lymphoid development. IKZF1, commonly known as Ikaros, belongs to the Ikaros family of transcription factors and controls gene expression programs required for the differentiation, maturation, and function of multiple immune cell lineages. Through its ability to regulate chromatin organization and transcriptional activity, IKZF1 plays an essential role in establishing normal hematopoietic development and immune system formation.

Zebrafish IKZF1 Antibody is widely used for studying hematopoiesis and vertebrate immune development. Expression of IKZF1 is closely associated with hematopoietic stem and progenitor cells as well as developing lymphoid populations. The protein regulates developmental pathways that influence lineage commitment, cellular differentiation, and maintenance of immune cell identity. Because zebrafish provide a powerful model for visualizing blood cell formation and developmental processes in vivo, IKZF1 serves as an important marker for investigations of hematopoietic regulation and immune system ontogeny.

Zebrafish IKZF1 Antibody is also valuable for examining transcriptional control mechanisms that govern cell fate determination. Ikaros proteins function as transcriptional regulators that can either activate or repress gene expression depending on cellular context. By coordinating complex developmental gene networks, IKZF1 contributes to normal tissue differentiation and cellular specialization. Analysis of IKZF1 expression can therefore provide important insights into the molecular pathways that regulate developmental decisions during vertebrate growth.

Zebrafish IKZF1 Antibody supports research involving hematopoietic stem cells, lymphocyte development, immune system formation, developmental biology, and transcription factor regulation. The strong evolutionary conservation of IKZF1 across vertebrate species has made zebrafish an important model for studying the genetic and molecular mechanisms that govern blood cell development and immune function.

Zebrafish IKZF1 Antibody is additionally relevant for studies of leukemia, lymphoma, and immune disorders. Alterations in IKZF1 expression or function can disrupt normal hematopoietic differentiation and contribute to disease pathogenesis. As a result, IKZF1 remains an important biomarker for investigations of immune development, hematologic malignancies, and transcriptional regulation in vertebrate systems.

Researchers studying lymphoid development, hematopoietic differentiation, and immune cell lineage commitment may also be interested in our IKZF1 Antibody / Lymphoid Development Transcription Factor Antibody.

This Zebrafish antibody is part of a broader Zebrafish / Danio rerio antibody panel offered by NSJ Bioreagents.

Application Notes

The optimal working dilution of the Zebrafish IKZF1 Antibody / Ikaros Family Zinc Finger 1 Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish IKZF1 recombinant protein (amino acids K37-R485) was used as the immunogen for the Zebrafish IKZF1 Antibody.

Storage

After reconstitution, the Zebrafish IKZF1 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Zebrafish IKZF1 Antibody, Zebrafish Ikaros Family Zinc Finger 1 Antibody, Zebrafish Ikaros Antibody, Zebrafish Zinc Finger Protein Ikaros Antibody, Zebrafish Lymphoid Development Factor Antibody, Zebrafish Hematopoietic Transcription Factor Antibody

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