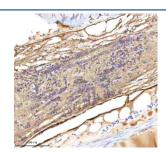


Danre Lmo2 Antibody / Rhombotin 2 (RZ1235)

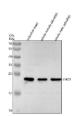
Catalog No.	Formulation	Size
RZ1235	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

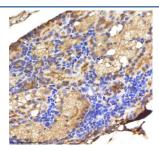
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9PTJ3
Localization	Nucleus, Cytoplasm, Cell surface
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Danre Lmo2 antibody is available for research use only.



IHC staining of FFPE zebrafish spinal cord tissue with Danre Lmo2 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 Lmo2 protein using Danre Lmo2 antibody and 1) zebrafish head, 2) whole female zebrafish and 3) whole male zebrafish tissue lysate. Predicted molecular weight ~18 kDa.



IHC staining of FFPE zebrafish kidney tissue with Danre Lmo2 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Lmo2, or LIM domain only protein two, is a transcriptional regulator that plays a critical role in hematopoietic and vascular development. In zebrafish, Lmo2 is essential for the specification of blood and endothelial lineages and is widely used as a molecular marker for early hematopoietic progenitor cells.

Lmo2 does not directly bind to DNA but functions as a scaffold protein, forming complexes with other transcription factors to regulate gene expression. During zebrafish embryogenesis, Lmo2 is expressed in the intermediate cell mass, the site of primitive blood cell formation, and in the developing vasculature. It is required for the emergence of both erythroid and myeloid lineages, as well as for the proper development of endothelial cells.

Loss of Lmo2 function in zebrafish results in severe defects in blood cell formation and vascular patterning, highlighting its central role in mesodermal differentiation. Because of its strong evolutionary conservation and defined expression patterns, zebrafish Lmo2 serves as a powerful model for studying hematopoiesis, angiogenesis, and transcriptional networks involved in early development.

Lmo2 is also relevant to human health, as misregulation of Lmo2 has been associated with leukemia. This makes zebrafish Lmo2 a valuable tool in both basic research and disease modeling related to blood development and cancer biology.

Application Notes

Optimal dilution of the Danre Lmo2 antibody should be determined by the researcher.

Immunogen

E. coli-derived Danre Lmo2 recombinant protein (amino acids M1-V159) was used as the immunogen for the Danre Lmo2 antibody.

Storage

After reconstitution, the Danre Lmo2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.