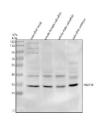


Zebrafish Msx1b Antibody / Msxb protein (RZ1197)

Catalog No.	Formulation	Size
RZ1197	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	B2GSG0
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Msx1b antibody is available for research use only.



Western blot analysis of Msx1b protein using Zebrafish Msx1b antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish and 4) zebrafish embryo tissue lysate. Predicted molecular weight ~28 kDa.

Description

Msh homeobox 1b (Msx1b) is a transcription factor belonging to the muscle segment homeobox (Msx) gene family, which is involved in the regulation of developmental processes including cell proliferation, differentiation, and apoptosis. In zebrafish (Danio rerio), Msx1b plays a key role in craniofacial development, neural crest cell differentiation, and fin regeneration.

Msx1b is expressed during early embryogenesis in areas of active morphogenesis, such as the neural plate border, pharyngeal arches, and developing fin buds. It functions as a downstream effector of signaling pathways such as BMP, FGF, and Wnt, integrating these cues to regulate gene expression patterns during tissue patterning and regeneration.

Notably, Msx1b expression is reactivated during appendage regeneration, making it a valuable marker for regenerative studies.

Zebrafish Msx1b is widely used in developmental biology to study neural crest cell fate, craniofacial patterning, and regenerative mechanisms, and provides a conserved model for understanding the genetic basis of congenital malformations and tissue repair.

Application Notes

Optimal dilution of the Zebrafish Msx1b antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Msx1b recombinant protein (amino acids M1-H125) was used as the immunogen for the Zebrafish Msx1b antibody.

Storage

After reconstitution, the Zebrafish Msx1b antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.