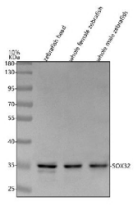
Zebrafish Sox32 Antibody / Casanova (RZ1313)

Catalog No.	Formulation	Size
RZ1313	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	Q90Z46
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Sox32 antibody is available for research use only.



Western blot analysis of Sox32 protein using Zebrafish Sox32 antibody and 1) zebrafish head, 2) whole female zebrafish and 3) whole male zebrafish tissue lysate. Predicted molecular weight ~35 kDa.

Description

Zebrafish Sox32, also known as SRY related HMG box 32, is a transcription factor that plays a key role in endoderm formation and early developmental processes. Sox32 belongs to the Sox family of transcription factors, which are defined by the presence of a high mobility group (HMG) DNA binding domain. In zebrafish embryos, Sox32 is essential for specifying endodermal cell fate and for the proper development of organs derived from endodermal tissues such as the pancreas and liver.

Zebrafish Sox32 is considered a functional counterpart to members of the human SOX family, although there is no single direct human ortholog due to evolutionary divergence. The conserved role of Sox family proteins in regulating

developmental gene expression makes Sox32 a critical target for studying early embryogenesis and cell lineage determination.

The use of a Zebrafish Sox32 antibody enables researchers to detect and study the expression patterns of Sox32 during early development. Such antibodies are essential tools for applications including western blot, immunohistochemistry, and immunofluorescence to visualize Sox32 in specific tissues or cell types. By applying a Zebrafish Sox32 antibody, scientists can gain deeper insights into the transcriptional networks that control endoderm differentiation and organogenesis.

There are no known isoforms of zebrafish Sox32, and its expression is tightly regulated during the early stages of development. Reagents such as a Zebrafish Sox32 antibody are also useful in exploring how perturbations in Sox32 function can lead to defects in endoderm specification or other developmental abnormalities.

Application Notes

Optimal dilution of the Zebrafish Sox32 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Sox32 recombinant protein (amino acids M1-K307) was used as the immunogen for the Zebrafish Sox32 antibody.

Storage

After reconstitution, the Zebrafish Sox32 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.