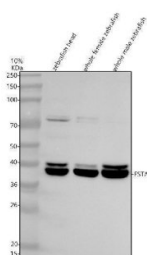


Zebrafish Follistatin Antibody / FSTA Antibody (RZ1477)

Catalog No.	Formulation	Size
RZ1477	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	Q9YHV4
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Follistatin Antibody / FSTA Antibody is available for research use only.



Zebrafish Follistatin Antibody / FSTA Antibody Zebrafish Head, Female and Male WB. Western blot analysis of 1) zebrafish head, 2) whole female zebrafish, and 3) whole male zebrafish tissue lysates using Zebrafish Follistatin Antibody / FSTA Antibody. A prominent immunoreactive band is detected at approximately 38 kDa in all three samples, consistent with the expected molecular weight of FSTA (~35 kDa). The slight increase in apparent molecular weight is compatible with post-translational processing of this secreted glycoprotein. Proteins were separated under reducing conditions, transferred to a nitrocellulose membrane, and detected following incubation with the primary antibody (0.5 ug/ml) and an HRP-conjugated goat anti-rabbit secondary antibody using ECL detection.

Description

Zebrafish Follistatin Antibody / FSTA Antibody recognizes zebrafish FSTA, the functional ortholog of human follistatin (FST), a secreted glycoprotein that binds and neutralizes members of the transforming growth factor beta superfamily, particularly activins and several bone morphogenetic proteins. By regulating these developmental signaling pathways, FSTA plays an essential role in embryogenesis, tissue differentiation, organ formation, and maintenance of normal developmental patterning. Zebrafish Follistatin Antibody / FSTA Antibody is well suited for studies of embryonic development, morphogenesis, and transforming growth factor beta signaling.

During zebrafish development, FSTA functions as an extracellular antagonist that limits activin and bone morphogenetic protein signaling to establish appropriate developmental gradients. This regulation contributes to mesoderm specification, dorsal-ventral patterning, muscle development, fin formation, and organogenesis. Balanced FSTA activity is critical for normal embryonic growth, as excessive or insufficient transforming growth factor beta signaling can disrupt tissue specification and body patterning.

Beyond embryonic development, follistatin regulates skeletal muscle growth, tissue regeneration, reproductive biology, wound healing, and stem cell differentiation. Because follistatin antagonizes multiple transforming growth factor beta family ligands, it has attracted considerable interest in studies of muscle regeneration, fibrosis, inflammatory disease, and cancer. The strong evolutionary conservation of follistatin function between zebrafish and mammals makes zebrafish an excellent vertebrate model for investigating developmental signaling pathways and therapeutic modulation of activin signaling.

Zebrafish Follistatin Antibody / FSTA Antibody is suitable for immunohistochemistry, immunofluorescence, western blotting, and related immunodetection applications requiring reliable detection of FSTA expression and localization. Researchers commonly use this antibody to investigate embryonic patterning, transforming growth factor beta signaling, muscle development, regenerative biology, and developmental disease models. By supporting studies of one of the principal extracellular regulators of activin signaling, Zebrafish Follistatin Antibody / FSTA Antibody provides a dependable reagent for developmental biology and regenerative medicine research.

Learn more about follistatin biology, activin signaling, and additional validated products on our [Follistatin Antibody](#) page.

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 Follistatin Antibody / FSTA Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish FSTA recombinant protein (amino acids G33-A303) was used as the immunogen for the Zebrafish FSTA / Follistatin Antibody.

Storage

After reconstitution, the Zebrafish FSTA / Follistatin 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 Follistatin antibody, Zebrafish FST antibody, Zebrafish FSTA antibody, Zebrafish Activin Binding Protein antibody, Zebrafish TGF Beta Antagonist antibody, Zebrafish FS antibody