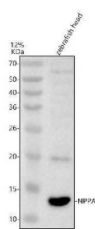


Zebrafish NPPA Antibody / Natriuretic Peptide A Antibody (RZ1440)

Catalog No.	Formulation	Size
RZ1440	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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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	F1QVW0
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish NPPA Antibody / Natriuretic Peptide A Antibody is available for research use only.



Zebrafish NPPA Antibody WB. Western blot analysis of NPPA using anti-NPPA antibody demonstrates a distinct immunoreactive band at approximately 15 kDa in zebrafish head tissue lysate, consistent with the expected molecular weight of Natriuretic Peptide A (NPPA). NPPA is the precursor of atrial natriuretic peptide (ANP), a peptide hormone that functions as an important regulator of cardiovascular physiology, fluid balance, and endocrine signaling. The observed expression is consistent with the established role of natriuretic peptide pathways in cardiovascular regulation and vertebrate homeostasis. Western blot was performed using 0.5 ug/ml primary antibody. Predicted molecular weight: ~15 kDa.

Description

Zebrafish NPPA Antibody / Natriuretic Peptide A Antibody is designed for the detection and study of NPPA, a peptide hormone precursor that gives rise to atrial natriuretic peptide (ANP), an important regulator of cardiovascular and fluid homeostasis. Zebrafish NPPA Antibody enables investigation of signaling pathways that coordinate cardiovascular function, endocrine communication, and physiologic adaptation. Through these activities, NPPA contributes to maintenance of circulatory balance and regulation of cardiovascular physiology in vertebrates.

NPPA encodes a precursor protein that is processed to generate biologically active natriuretic peptides. These signaling molecules function as endocrine and paracrine mediators that help regulate fluid balance, vascular tone, and

cardiovascular homeostasis. Zebrafish NPPA Antibody is useful for studying peptide hormone expression and the molecular mechanisms that coordinate cardiovascular signaling networks during development and adult physiology.

Zebrafish provide a valuable vertebrate model for investigating cardiovascular development, cardiac physiology, and endocrine regulation. Natriuretic peptide signaling pathways are highly conserved among vertebrates and play important roles in heart development, cardiovascular adaptation, and maintenance of normal circulatory function. Studies utilizing Zebrafish NPPA Antibody can help characterize expression patterns associated with cardiac development and cardiovascular signaling processes.

Beyond cardiovascular biology, natriuretic peptide pathways have attracted significant interest in research involving developmental biology, endocrine signaling, tissue homeostasis, and physiologic regulation. Because peptide hormones function as key mediators of intercellular communication, NPPA remains an important target for investigations examining how endocrine signals coordinate organ function and systemic homeostasis. Zebrafish NPPA Antibody supports these studies by enabling characterization of NPPA expression in developmental and adult tissues.

Zebrafish NPPA Antibody is useful for investigating cardiovascular signaling, cardiac development, endocrine regulation, peptide hormone biology, and vertebrate physiology. Researchers utilize Zebrafish NPPA Antibody to better understand molecular mechanisms governing heart development, circulatory homeostasis, endocrine communication, and natriuretic peptide-mediated signaling pathways.

Learn more about atrial natriuretic peptide signaling, cardiovascular hormone regulation, and natriuretic factor biology on our [ANF 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 NPPA Antibody / Natriuretic Peptide A Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish Natriuretic Peptide A recombinant protein (amino acids H23-G139) was used as the immunogen for the Zebrafish NPPA Antibody.

Storage

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

Alternate Names

Zebrafish NPPA Antibody, Zebrafish Natriuretic Peptide A Antibody, Zebrafish Atrial Natriuretic Peptide Antibody, Zebrafish ANP Antibody, Zebrafish Cardiac Peptide Hormone Antibody, Zebrafish Cardiovascular Signaling Protein Antibody, Zebrafish Natriuretic Hormone Antibody

