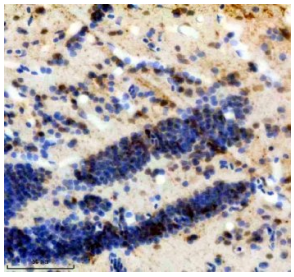
Zebrafish WNT8A Antibody (RZ1444)

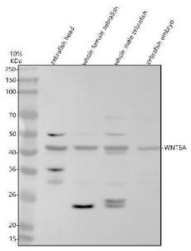
Catalog No.	Formulation	Size
RZ1444	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	P51028
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Zebrafish WNT8A Antibody is available for research use only.



Zebrafish WNT8 Antibody Brain IHC. Immunohistochemistry analysis of zebrafish brain tissue using anti-WNT8A antibody demonstrates distinct cytoplasmic staining within neural cell populations, consistent with expression of WNT8, a secreted signaling ligand that functions as an important regulator of the Wnt signaling pathway. WNT8 plays a critical role in embryonic patterning, axis formation, tissue specification, and developmental signaling during vertebrate development. The observed staining pattern is consistent with the established involvement of Wnt pathway components in neurodevelopmental processes and cellular communication within the nervous system. Heat-mediated antigen retrieval was performed in EDTA buffer. Tissue sections were blocked with 10% goat serum and incubated with 2 ug/ml primary antibody overnight at 4Â°C. Detection was performed using a peroxidase-conjugated goat anti-rabbit IgG secondary antibody followed by DAB chromogen development.



Zebrafish WNT8 Antibody WB. Western blot analysis of WNT8A using anti-WNT8A antibody demonstrates a prominent immunoreactive band at approximately 42 kDa in zebrafish head, whole female, whole male, and embryo tissue lysates, consistent with the expected molecular weight of WNT8, the zebrafish ortholog of human WNT8A. WNT8 is a secreted signaling ligand that functions as an important regulator of canonical Wnt signaling pathways controlling embryonic patterning, axis specification, tissue differentiation, and vertebrate development. The observed expression across both developmental and adult-associated tissue samples is consistent with the established role of WNT8 in developmental signaling and regulation of cell fate decisions. Western blot was performed using 0.5 ug/ml primary antibody. Predicted molecular weight: ~40 kDa.

Description

Zebrafish WNT8 Antibody / WNT8A Antibody is designed for the detection and study of WNT8A, the zebrafish ortholog of human WNT8A, a secreted signaling protein that functions as an important regulator of the Wnt signaling pathway. WNT8A plays a central role in embryonic development by controlling cell fate specification, tissue patterning, and morphogenetic processes that establish the vertebrate body plan. Because of its critical developmental functions, WNT8A has become an important target in studies of embryogenesis and developmental signaling.

WNT8A belongs to the Wnt family of secreted glycoproteins that mediate cell-to-cell communication through highly conserved signaling pathways. Wnt signaling regulates numerous biologic processes including cellular proliferation, differentiation, migration, and tissue organization. Through activation of canonical and non-canonical signaling mechanisms, WNT proteins coordinate developmental programs that govern formation of tissues and organ systems throughout vertebrate development.

One of the best-characterized functions of WNT8A is its role in embryonic patterning and axis formation. During early development, WNT8A signaling contributes to specification of embryonic territories and helps regulate developmental decisions that establish anterior-posterior patterning. As a result, WNT8A has become a widely studied developmental regulator in zebrafish, where it serves as an important model for understanding vertebrate embryogenesis and tissue specification.

Zebrafish provide a powerful vertebrate system for investigating Wnt pathway biology because many developmental signaling mechanisms are highly conserved between fish and mammals. Studies utilizing Zebrafish WNT8 Antibody can help characterize expression patterns associated with gastrulation, tissue differentiation, organogenesis, and developmental signaling events. These investigations continue to provide valuable insights into the molecular pathways that regulate vertebrate development.

Beyond developmental biology, Wnt signaling pathways have attracted extensive interest in stem cell biology, regenerative medicine, cancer research, and tissue homeostasis. Because WNT8A functions as an upstream signaling ligand capable of influencing multiple downstream pathways, it remains an important target for studies examining how extracellular signaling molecules coordinate cellular behavior and developmental outcomes.

Zebrafish WNT8 Antibody is useful for investigating Wnt signaling, embryonic patterning, axis formation, developmental biology, tissue differentiation, and vertebrate physiology. Researchers utilize Zebrafish WNT8 Antibody to better understand molecular mechanisms governing embryogenesis, developmental signaling, cell fate determination, and Wnt pathway-dependent regulatory networks.

Learn more about WNT8A function, Wnt signaling, and embryonic patterning on our WNT8A Antibody / Embryonic Patterning Protein 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 WNT8A Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish WNT8A recombinant protein (amino acids S134-R359) was used as the immunogen for the Zebrafish WNT8A Antibody.

Storage

After reconstitution, the Zebrafish WNT8A 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 WNT8A Antibody, Zebrafish WNT8 Antibody, Zebrafish Wingless-Type MMTV Integration Site Family Member 8A Antibody, Zebrafish Canonical Wnt Signaling Protein Antibody, Zebrafish Developmental Morphogen Antibody, Zebrafish Embryonic Patterning Protein Antibody, Zebrafish Wnt Pathway Ligand Antibody

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