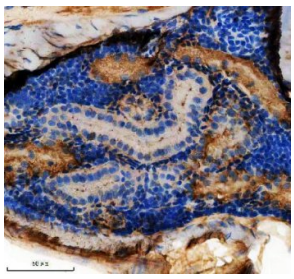
Zebrafish DAPK2A Antibody / Death Associated Protein Kinase 2a Antibody (RZ1438)

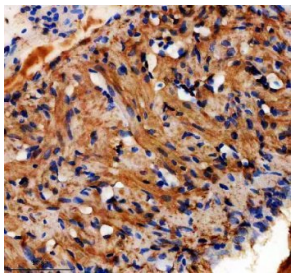
Catalog No.	Formulation	Size
RZ1438	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

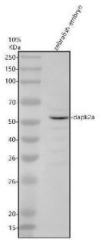
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	E7F1A1
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Zebrafish DAPK2A Antibody / Death Associated Protein Kinase 2a Antibody is available for research use only.



Zebrafish DAPK2A Antibody Kidney IHC. Immunohistochemistry staining of paraffin-embedded zebrafish kidney tissue using DAPK2A antibody demonstrates prominent cytoplasmic staining within renal epithelial and tubular-associated cell populations, consistent with expression of Death Associated Protein Kinase 2a (DAPK2A). DAPK2A is a calcium/calmodulin-regulated serine/threonine kinase that participates in signaling pathways involved in cellular regulation, stress responses, and programmed cell fate decisions. The observed staining pattern is consistent with the role of DAPK family proteins in coordinating intracellular signaling networks that contribute to tissue homeostasis and cellular adaptation. Heat-mediated antigen retrieval was performed in EDTA buffer. Tissue sections were stained with 2 ug/ml primary antibody and visualized using DAB chromogen.



Zebrafish DAPK2A Antibody Heart IHC. Immunohistochemistry staining of paraffin-embedded zebrafish heart tissue using DAPK2A antibody demonstrates widespread cytoplasmic staining throughout cardiomyocyte-rich regions, consistent with expression of Death Associated Protein Kinase 2a (DAPK2A). DAPK2A is a calcium/calmodulin-regulated serine/threonine kinase that participates in signaling pathways governing cellular regulation, stress responses, and programmed cell fate decisions. The observed staining pattern within cardiac tissue is consistent with the role of DAPK family proteins in coordinating intracellular signaling networks that support tissue homeostasis, cellular adaptation, and maintenance of normal physiologic function. Heat-mediated antigen retrieval was performed in EDTA buffer. Tissue sections were stained with 2 ug/ml primary antibody and visualized using DAB chromogen.



Zebrafish DAPK2A Antibody WB. Western blot analysis of DAPK2A using anti-DAPK2A antibody demonstrates a distinct immunoreactive band at approximately 56 kDa in zebrafish embryo lysate, consistent with the expected molecular weight of Death Associated Protein Kinase 2a (DAPK2A). DAPK2A is a calcium/calmodulin-regulated serine/threonine kinase that participates in intracellular signaling pathways involved in cellular regulation, stress responses, and programmed cell fate decisions. The observed embryonic expression is consistent with the role of DAPK family proteins in coordinating kinase-dependent signaling networks that contribute to vertebrate development, tissue homeostasis, and cellular adaptation. Western blot was performed using 0.5 ug/ml primary antibody. Predicted molecular weight: ~56 kDa.

Description

Zebrafish DAPK2A Antibody / Death Associated Protein Kinase 2a Antibody is designed for the detection and study of DAPK2A, a member of the death-associated protein kinase family of calcium/calmodulin-regulated serine/threonine kinases. DAPK2A functions as a signaling kinase that participates in pathways regulating cellular responses to developmental, environmental, and physiologic stimuli. Through its kinase activity, DAPK2A contributes to intracellular signaling networks that influence cellular behavior, tissue homeostasis, and developmental processes.

Zebrafish DAPK2A Antibody enables investigation of a highly conserved kinase family that regulates signaling pathways involved in cellular growth, differentiation, stress responses, and programmed cell fate decisions. Members of the DAPK family function as important mediators of signal transduction and help coordinate communication between extracellular signals and intracellular regulatory mechanisms. These activities place DAPK2A within signaling networks that influence numerous aspects of vertebrate biology.

Zebrafish provide a valuable vertebrate model for investigating developmental signaling, kinase regulation, and cellular homeostasis. Expression of DAPK family proteins has been associated with pathways involved in tissue development, cellular remodeling, and maintenance of normal physiologic function. Studies utilizing zebrafish models continue to improve understanding of how kinase-dependent signaling pathways contribute to development and adaptation across vertebrate systems.

Beyond developmental biology, DAPK family proteins have attracted significant interest in research involving apoptosis, cellular stress responses, autophagy, signal transduction, and disease-associated signaling mechanisms. Because protein kinases serve as central regulators of cellular communication networks, DAPK2A remains an important target for investigations examining how signaling pathways control cellular responses to internal and external cues. Zebrafish DAPK2A Antibody supports these studies by enabling characterization of DAPK2A expression patterns in developing and adult tissues.

Zebrafish DAPK2A Antibody is useful for investigating kinase signaling, developmental biology, cellular regulation, programmed cell fate pathways, and vertebrate physiology. Researchers utilize Zebrafish DAPK2A Antibody to better understand molecular mechanisms governing signal transduction, tissue development, cellular homeostasis, and kinase-

mediated regulatory networks.

Learn more about DAPK2 and its role in programmed cell death, cellular stress responses, and intracellular signal transduction on our DAPK2 Antibody / Apoptosis Regulatory Kinase 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 DAPK2A Antibody / Death Associated Protein Kinase 2a Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish DAPK2A recombinant protein (amino acids R263-R484) was used as the immunogen for the Zebrafish DAPK2A Antibody.

Storage

After reconstitution, the Zebrafish DAPK2A 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 DAPK2A Antibody, Zebrafish Death Associated Protein Kinase 2a Antibody, Zebrafish DAP Kinase 2a Antibody, Zebrafish Serine Threonine Kinase Antibody, Zebrafish Protein Kinase Antibody, Zebrafish Cell Death Signaling Protein Antibody, Zebrafish Developmental Signaling Protein Antibody

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