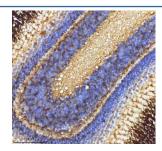


Zebrafish Caspase 9 Antibody / Casp9 (RZ1208)

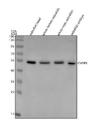
Catalog No.	Formulation	Size
RZ1208	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

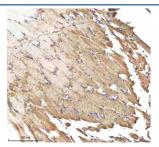
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	F1QSB1
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Zebrafish Caspase 9 antibody is available for research use only.



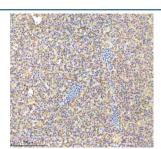
IHC staining of FFPE zebrafish eye tissue with Zebrafish Caspase 9 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



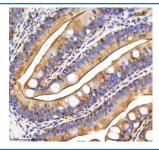
Western blot analysis of Caspase 9 protein using Zebrafish Caspase 9 antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish and 4) zebrafish embryo tissue lysate. Predicted molecular weight ~48 kDa.



IHC staining of FFPE zebrafish muscle tissue with Zebrafish Caspase 9 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE zebrafish liver tissue with Zebrafish Caspase 9 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE zebrafish colon tissue with Zebrafish Caspase 9 antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Caspase 9 is a key initiator caspase in the intrinsic (mitochondrial) apoptotic pathway, responsible for activating downstream effector caspases and orchestrating programmed cell death. In zebrafish (Danio rerio), Caspase 9 plays a conserved role in regulating apoptosis during embryonic development, as well as in maintaining tissue homeostasis and responding to cellular stress.

Following mitochondrial outer membrane permeabilization, cytochrome c is released into the cytosol, leading to the formation of the apoptosome complex. Caspase 9 is recruited and activated within this complex, initiating a proteolytic cascade that culminates in the activation of effector caspases such as Caspase 3 and Caspase 7. In zebrafish, casp9 is expressed in multiple tissues during development and is crucial for eliminating damaged, mis-specified, or excess cells.

Zebrafish Caspase 9 is widely used in research on cell death mechanisms, neurodevelopment, cancer biology, and toxicology, providing an in vivo model to study mitochondria-mediated apoptosis and the effects of pro- and anti-apoptotic signals. Due to its high degree of functional conservation with mammalian caspase-9, it serves as a valuable tool for both basic and translational research.

Application Notes

Optimal dilution of the Zebrafish Caspase 9 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Caspase 9 recombinant protein (amino acids K18-Q417) was used as the immunogen for the Zebrafish Caspase 9 antibody.

Storage After reconstitution, the Zebrafish Caspase 9 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.