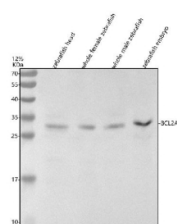


Zebrafish Bcl2a Antibody / Bcl-2 (RZ1206)

Catalog No.	Formulation	Size
RZ1206	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	Q564A4
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Bcl2a antibody is available for research use only.



Western blot analysis of Bcl2a protein using Zebrafish Bcl2a antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish and 4) zebrafish embryo tissue lysate. Predicted molecular weight ~26 kDa.

Description

B-cell lymphoma 2a (Bcl2a) is a member of the Bcl-2 family of proteins that regulate apoptosis, or programmed cell death. In zebrafish (*Danio rerio*), Bcl2a functions as an anti-apoptotic protein, playing a key role in promoting cell survival during development and in response to cellular stress.

Bcl2a acts by inhibiting the mitochondrial apoptotic pathway, primarily through binding and neutralizing pro-apoptotic proteins such as Bax and Bak. This prevents the release of cytochrome c and the subsequent activation of caspases. Zebrafish bcl2a is expressed in various tissues during embryogenesis, including the developing brain, spinal cord, and hematopoietic tissues, where controlled regulation of cell death is essential for proper morphogenesis and tissue

homeostasis.

Due to its conserved function with mammalian BCL2, zebrafish Bcl2a is widely used in studies of cell survival signaling, developmental apoptosis, and disease models involving cancer, neurodegeneration, and immune cell regulation. It also serves as a valuable model for investigating the molecular mechanisms of apoptosis and the effects of pro- and anti-apoptotic compounds in vivo.

Application Notes

Optimal dilution of the Zebrafish Bcl2a antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Bcl2a recombinant protein (amino acids M1-K228) was used as the immunogen for the Zebrafish Bcl2a antibody.

Storage

After reconstitution, the Zebrafish Bcl2a 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.