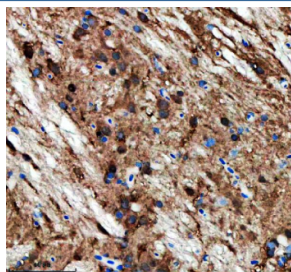


Zebrafish Opa1 Antibody / Dynamin-like GTPase Opa1 (RZ1105)

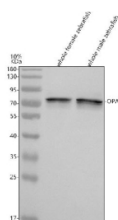
Catalog No.	Formulation	Size
RZ1105	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

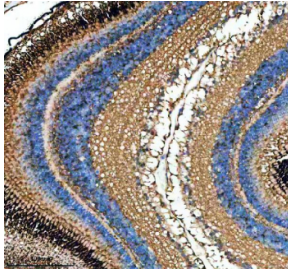
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q5U3A7
Localization	Cytoplasm, membrane
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5 ug/ml
Limitations	This Zebrafish Opa1 antibody is available for research use only.



IHC staining of FFPE zebrafish brain tissue with Zebrafish Opa1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot analysis of Opa1 protein using Opa1 antibody and 1) whole female zebrafish tissue lysate and 2) whole male zebrafish tissue lysate with Zebrafish Opa1 antibody. Predicted molecular weight ~111 kDa with multiple smaller isoforms from 81-95 kDa (human similarity).



IHC staining of FFPE zebrafish eye tissue with Zebrafish Opa1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Dynamin-like 120 kDa protein, mitochondrial is a protein that in humans is encoded by the OPA1 gene. It is mapped to 3q29. This protein regulates mitochondrial fusion and cristae structure in the inner mitochondrial membrane (IMM) and contributes to ATP synthesis and apoptosis. This gene product is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. It is a component of the mitochondrial network. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the Zebrafish Opa1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish Opa1 recombinant protein (amino acids D302-Q568) was used as the immunogen for the Zebrafish Opa1 antibody.

Storage

After reconstitution, the Zebrafish Opa1 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.