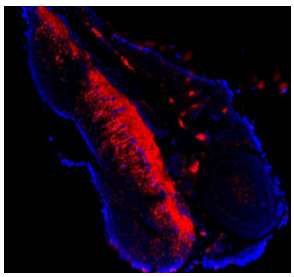
Zebrafish Atp5mc Antibody / Isoforms 1/2/3 (RZ1097)

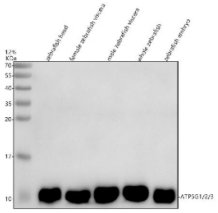
Catalog No.	Formulation	Size
RZ1097	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

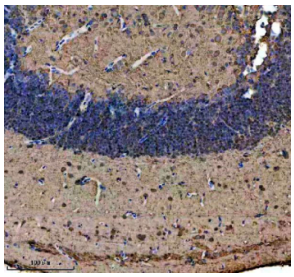
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q6IQN6
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5 ug/ml Immunofluorescence : 5 ug/ml
Limitations	This Zebrafish Atp5mc antibody is available for research use only.



Immunofluorescent staining of FFPE zebrafish embryo tissue with Zebrafish Atp5mc antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



Western blot analysis of Atp5mc1/2/3 protein using Zebrafish Atp5mc antibody and and 1) zebrafish head, 2) female zebrafish viscera, 3) male zebrafish viscera, 4) whole zebrafish and 5) zebrafish embryo tissue lysate. Predicted molecular weight ~10 kDa.



IHC staining of FFPE zebrafish brain tissue with Zebrafish Atp5mc antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

The ATP5MC1 gene is one of three human paralogs that encode membrane subunit c of the mitochondrial ATP synthase. It is mapped to 17q21.32. This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified.

Application Notes

Optimal dilution of the Zebrafish Atp5mc antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish Atp5mc1/2/3 recombinant protein (amino acids D64-L115) was used as the immunogen for the Zebrafish Atp5mc antibody.

Storage

After reconstitution, the Zebrafish Atp5mc antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.