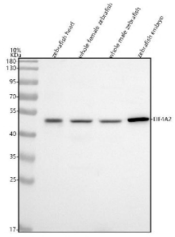
Zebrafish Eif4a2 Antibody (RZ1046)

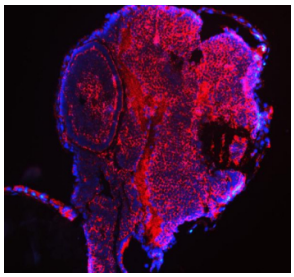
Catalog No.	Formulation	Size
RZ1046	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

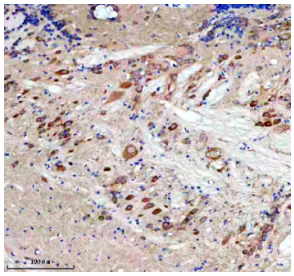
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	F1R166
Localization	Cytoplasm
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5 ug/ml Immunofluorescence : 5 ug/ml
Limitations	This Zebrafish Eif4a2 antibody is available for research use only.



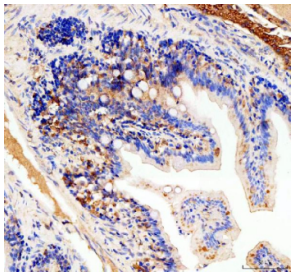
Western blot analysis of Eif4a2 protein using Zebrafish Eif4a2 antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish and 4) zebrafish embryo tissue lysate. Expected molecular weight ~47 kDa.



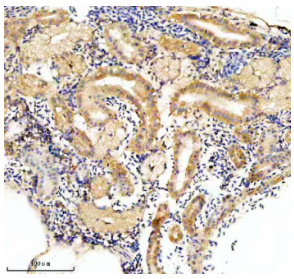
Immunofluorescent analysis of Eif4a2 protein using Zebrafish Eif4a2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



IHC staining of FFPE zebrafish brain tissue with Zebrafish Eif4a2 antibody. 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 Eif4a2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE zebrafish kidney tissue with Zebrafish Eif4a2 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Eukaryotic initiation factor 4A-II is a protein that in humans is encoded by the EIF4A2 gene. It is mapped to 18p11.2. Eukaryotic initiation factor 4A plays an important role in the binding of mRNA to the 43S preinitiation complex when protein synthesis begins. Two highly homologous forms of functional EIF4A genes, Eif4a1 and Eif4a2, have been isolated in mice; yeast cells also possess 2 EIF4A genes, TIF1 and TIF2. The murine Eif4a and yeast TIF genes appear to belong to a DEAD-box gene family, whose members exhibit extensive amino acid similarity and contain the asp-glu-ala-asp (DEAD) sequence. DEAD-box genes have been identified in species ranging from E-coli to humans. Their function appears to be related to transcriptional/translational regulation.

Application Notes

Optimal dilution of the Zebrafish Eif4a2 antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish Eif4a2 recombinant protein (amino acids M1-Q119) was used as the immunogen for the Zebrafish Eif4a2 antibody.

Storage

After reconstitution, the Zebrafish Eif4a2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.