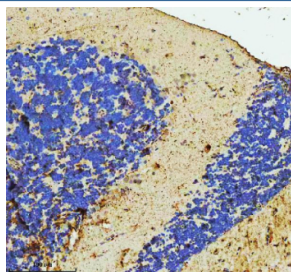


Zebrafish C9orf72 Antibody (RZ1012)

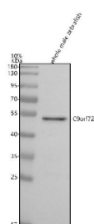
Catalog No.	Formulation	Size
RZ1012	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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	Q6TLH8
Localization	Cytoplasm
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5 ug/ml
Limitations	This Zebrafish C9orf72 antibody is available for research use only.



Immunohistochemical analysis of C9orf72 protein using C9orf72 antibody and paraffin-embedded zebrafish brain tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot analysis of C9orf72 protein using C9orf72 antibody and whole male zebrafish tissue lysate. The predicted molecular weight of C9orf72 is 54 kDa.

Description

C9orf72 (chromosome 9 open reading frame 72) is a protein which in humans is encoded by the gene C9orf72. It is mapped to 9p21.2. The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between alternate 5' exons in transcripts from this gene is associated with 9p-linked ALS (amyotrophic lateral sclerosis) and FTD (frontotemporal dementia) (PMID: 21944778, 21944779). Studies suggest that hexanucleotide expansions could result in the selective stabilization of repeat-containing pre-mRNA, and the accumulation of insoluble dipeptide repeat protein aggregates that could be pathogenic in FTD-ALS patients (PMID: 23393093). Alternative splicing results in multiple transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the Zebrafish C9orf72 antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish C9orf72 recombinant protein (amino acids R40-E77) was used as the immunogen for the Zebrafish C9orf72 antibody.

Storage

After reconstitution, the Zebrafish C9orf72 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.