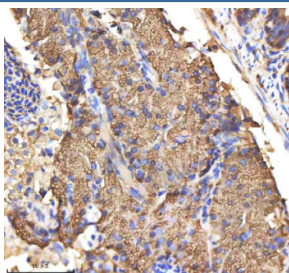


Zebrafish Csf1r Antibody / M-csfr (RZ1237)

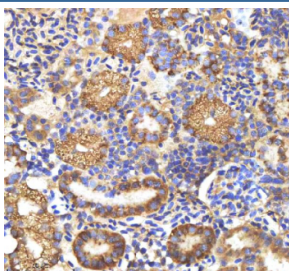
Catalog No.	Formulation	Size
RZ1237	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

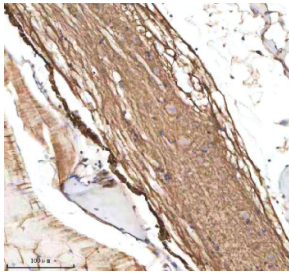
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9I8N6
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Zebrafish Csf1r antibody is available for research use only.



IHC staining of zebrafish Csf1r protein using Zebrafish Csf1r antibody, HRP-labeled secondary and DAB substrate. M-Csf1r was detected in a paraffin-embedded section of zebrafish pancreas tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of zebrafish Csf1r protein using Zebrafish Csf1r antibody, HRP-labeled secondary and DAB substrate. Csf1r was detected in a paraffin-embedded section of zebrafish kidney tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of zebrafish Csfr1 protein using Zebrafish Csfr1 antibody, HRP-labeled secondary and DAB substrate. Csfr1 was detected in a paraffin-embedded section of zebrafish spinal cord tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Csfr1, or colony stimulating factor one receptor, is a transmembrane receptor tyrosine kinase that plays an essential role in the development, differentiation, and function of cells in the mononuclear phagocyte system, including macrophages and microglia. In zebrafish, Csfr1 is a key regulator of innate immune cell development and is critical for the maintenance of tissue resident macrophages during embryogenesis and adulthood.

Csfr1 is activated by binding to its primary ligand, colony stimulating factor one, which triggers intracellular signaling pathways involved in cell survival, proliferation, and differentiation. In zebrafish, Csfr1 is expressed in the yolk sac and hematopoietic tissues early in development and marks cells that give rise to macrophages, including microglia in the brain and Kupffer cells in the liver.

Disruption of Csfr1 function in zebrafish leads to reduced numbers or absence of tissue macrophages, providing a valuable model for studying the roles of these cells in development, immunity, and disease. Zebrafish Csfr1 is widely used in research related to innate immunity, inflammation, neuroimmunology, and hematopoiesis.

Due to its conservation across vertebrate species, zebrafish Csfr1 is also a powerful tool for investigating genetic and pharmacological regulation of macrophage biology and for modeling diseases such as neurodegeneration and immune deficiencies.

Application Notes

Optimal dilution of the Zebrafish Csfr1 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Csfr1 recombinant protein (amino acids D409-C977) was used as the immunogen for the Zebrafish Csfr1 antibody.

Storage

After reconstitution, the Zebrafish Csfr1 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.

