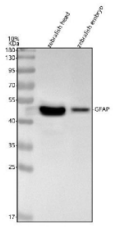
Zebrafish Gfap Antibody / Glial fibrillary acidic protein (RZ1225)

Catalog No.	Formulation	Size
RZ1225	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	Q58EE9
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Zebrafish Gfap antibody is available for research use only.



Western blot analysis of Gfap protein using Zebrafish Gfap antibody and 1) zebrafish head tissue lysates and 2) zebrafish embryo tissue lysates. Predicted molecular weight ~51 kDa.

Description

Gfap, or glial fibrillary acidic protein, is an intermediate filament protein that serves as a key structural and functional component of astroglial cells in the central nervous system. In zebrafish, Gfap is widely used as a marker for radial glial cells, which function as neural progenitors during early brain development and also provide structural support to the developing nervous system.

Gfap is strongly expressed in the neural tube, spinal cord, and brain ventricles of developing zebrafish embryos. These radial glial cells give rise to neurons and glia, making Gfap expression an important indicator of neurogenesis. In the mature zebrafish brain, Gfap remains expressed in astroglia and is associated with neural maintenance, repair, and

regeneration.

Because zebrafish have a high capacity for neural regeneration, Gfap is also commonly used to study injury responses and repair mechanisms in the brain and spinal cord. The conservation of Gfap structure and function across vertebrates makes zebrafish a valuable model for understanding the roles of glial cells in development, neurodegeneration, and central nervous system diseases.

Zebrafish Gfap is widely applied in developmental neuroscience, regenerative medicine, and glial biology research. It is also a standard marker in transgenic models used to trace glial lineages and study brain architecture.

Application Notes

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

Immunogen

E. coli-derived zebrafish Gfap recombinant protein (amino acids R123-P444) was used as the immunogen for the Zebrafish Gfap antibody.

Storage

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