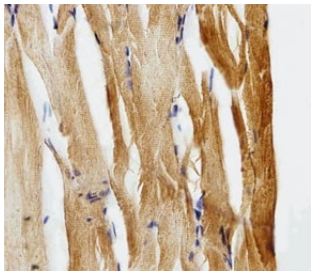
Zebrafish Gfap Antibody (F52537)

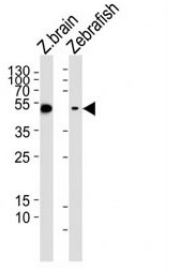
Catalog No.	Formulation	Size
F52537-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52537-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q58EE9
Applications	IHC (Paraffin) : 1:25 Western Blot : 1:1000
Limitations	This Zebrafish Gfap antibody is available for research use only.



IHC analysis of FFPE zebrafish muscle section using Gfap antibody; Ab was diluted at 1:25.



Western blot analysis of lysate from zebrafish brain, zebrafish whole tissue lysate (left to right) using Gfap antibody. Ab was diluted at 1:1000 for each lane.

Description

Glial fibrillary acidic protein (GFAP) is a major intermediate filament protein expressed in astroglial cells and radial glia of the central nervous system (CNS). In zebrafish (Danio rerio), GFAP serves as a key structural and functional component of glial cells, particularly radial glial progenitors, which play essential roles in CNS development, neurogenesis, and regeneration.

Zebrafish GFAP shares significant structural and functional homology with mammalian GFAP, including a conserved ÃŽÂ±-helical rod domain crucial for filament assembly. It is prominently expressed during embryonic development and persists in specific glial populations in the adult brain and spinal cord. Unlike in mammals, radial glia expressing GFAP remain active as neural stem cells in the adult zebrafish CNS, making GFAP an important marker for studying neurodevelopment and regeneration.

GFAP expression in zebrafish is widely used as a glial cell marker in developmental biology, neural stem cell research, and models of CNS injury and repair. Its upregulation is also indicative of reactive gliosis following CNS trauma.

Application Notes

Titration of the Gfap antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Gfap antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 2-36 amino acids from the N-terminal region of zebrafish Gfap.

Storage

Aliquot the Gfap antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.