

FEZ1 Antibody / Fasciculation and elongation protein zeta-1 Antibody (FY13525)

Catalog No.	Formulation	Size
FY13525	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q99689
Applications	Western Blot : 0.5-1ug/ml
Limitations	The FEZ1 Antibody / Fasciculation and elongation protein zeta-1 Antibody is available for research use only.

FEZ1 Antibody by WB in rat and mouse brain. Western blot analysis using Fasciculation and elongation protein zeta-1 Antibody detects a prominent band near 65 kDa in rat brain (lane 1) and mouse brain (lane 2), above the approximately 45 kDa sequence-predicted mass. Published FEZ1 studies document phosphorylation-dependent mobility differences and multiple immunoreactive species, although these findings do not establish the identity of every band in this blot. A second prominent higher band near 85 kDa is also visible in both samples. Each lane contained 30 ug of reduced tissue lysate resolved by 10% SDS-PAGE. Primary antibody was incubated at 0.5 ug/mL overnight at 4oC.

Description

FEZ1 Antibody / Fasciculation and elongation protein zeta-1 Antibody detects FEZ1, a protein associated with neuronal development and intracellular transport. It is related to the UNC-76 family of proteins involved in axonal organization and functions as an interaction partner for components of the neuronal transport machinery. FEZ1 is not a conventional motor protein; instead, it helps connect molecular partners within complexes that move or organize cellular cargo. Its coiled-coil regions contribute to interactions that are important for protein localization and function.

Neurons rely on coordinated movement of proteins, vesicles, and organelles along long cellular processes. FEZ1 has

been implicated in kinesin-associated transport pathways and in processes relevant to axon formation and extension. It also interacts with regulatory proteins that can influence its phosphorylation state and binding relationships. Because axonal development requires both cytoskeletal organization and targeted delivery of materials, FEZ1 occupies a useful position at the interface of these processes. The exact consequences of its interactions can differ according to developmental stage and cellular context. The Fasciculation and elongation protein zeta-1 Antibody designation reflects the full protein name associated with the FEZ1 target.

FEZ1 has been studied in connection with neuronal connectivity and disorders involving altered neural development or function. Some reports have also examined its interactions with proteins outside the core transport machinery, suggesting that its regulatory roles may extend beyond a single pathway. These findings should be interpreted carefully because association with a disease-related protein does not alone establish a causal disease mechanism. FEZ1 is distinct from its related family member FEZ2, and their biological roles should not be assumed to be identical. NSJ Bioreagents offers the FEZ1 Antibody for this neuronal protein. A FEZ1 Antibody is relevant to the molecular organization of axonal transport, neuronal morphology, and intracellular cargo trafficking.

Explore related research targets in our [Neuroscience Antibodies](#) collection.

Application Notes

An appropriate dilution of the FEZ1 Antibody / Fasciculation and elongation protein zeta-1 Antibody should be determined empirically before routine use.

Immunogen

The FEZ1 Antibody was generated using a synthetic peptide corresponding to a sequence at the N-terminus of human FEZ1.

Storage

The FEZ1 Antibody is stable for up to one month at 4oC after reconstitution. For longer-term storage, aliquot and store at -20oC for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

FEZ1 antibody, Fasciculation and elongation protein zeta-1 antibody, fasciculation and elongation protein zeta 1 antibody, Zygin I antibody, Zygin-1 antibody, FEZ1 rabbit polyclonal antibody