

FEZ1 Antibody
Catalog # ASC10553**Specification**

FEZ1 Antibody - Product Information

Application	IF
Primary Accession	Q99689
Other Accession	Q99689 , 9638
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	FEZ1 antibody can be used for the detection of FEZ1 by Western blot at 0.5 - 1 µg/mL. Despite its predicted molecular weight, FEZ1 will often run at higher molecular weight in SDS-PAGE.

FEZ1 Antibody - Additional Information

Gene ID 9638

Target/Specificity

FEZ1 antibody was raised against a 19 amino acid synthetic peptide from near the carboxy terminus of human FEZ1.

The immunogen is located within amino acids 270 - 320 of FEZ1.

Reconstitution & Storage

FEZ1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

FEZ1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FEZ1 Antibody - Protein Information**Name** FEZ1**Function**

May be involved in axonal outgrowth as component of the network of molecules that regulate cellular morphology and axon guidance machinery. Able to restore partial locomotion and axonal fasciculation to C.elegans unc-76 mutants in germline transformation experiments. May participate in the transport of mitochondria and other cargos along microtubules.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell membrane.
Note=Colocalizes with both, alpha- and gamma-tubulin Translocated from the plasma membrane to the cytoplasm by activation of the PKC zeta (By similarity).

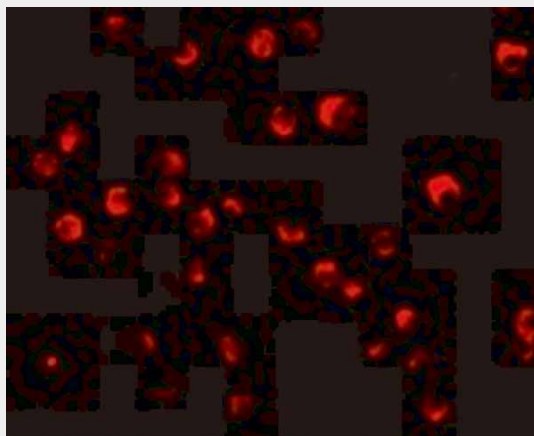
Tissue Location

Mainly expressed in brain.

FEZ1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FEZ1 Antibody - Images

Immunofluorescence of Caspase-8 in Jurkat cells with Caspase-8 antibody at 20 µg/mL.

FEZ1 Antibody - Background

FEZ1 Antibody: Similar to its *C. elegans* homolog UNC-76, mammalian FEZ1, an abundant membrane protein and protein kinase C (PKC)-Z substrate, is involved in axonal guidance. Following phosphorylation by PKC-Z, FEZ1 translocates from the plasma membrane to the cytoplasm. FEZ1 is then able to interact with a number of proteins involved in axonal outgrowth and cellular transport such as DISC1, a candidate gene for schizophrenia, as well as kinesin-1, a microtubule-based motor protein. FEZ1 also interacts with proteins involved in transcriptional regulation and chromatin remodeling, suggesting that FEZ1 may have nuclear regulatory functions in addition to those for neuronal development. At least two distinct isoforms of FEZ1 are known to exist.

FEZ1 Antibody - References

Kuroda S, Nakagawa N, Tokunaga C, et al. Mammalian homologue of the *Caenorhabditis elegans* UNC-76 protein involved in axonal outgrowth is a protein kinase C z-interacting protein. *J. Cell Biol.* 1999; 144:403-11.

Bloom L and Horvitz HR. The *Caenorhabditis elegans* gene *unc-76* and its human homologs define a new gene family involved in axonal outgrowth and fasciculation. *Proc. Natl. Acad. Sci. USA* 1997; 88:9578-82.

Miyoshi K, Honda A, Baba K, et al. Disrupted-in-schizophrenia 1, a candidate gene for schizophrenia,

participates in neurite outgrowth. Mol. Psychiatry 2003; 8:685-94.

Blasius TL, Cai D, Jih GT, et al. Two binding partners cooperate to activate the molecular motor kinesin-1. J. Cell Biol. 2007; 176:11-7.