Technical Data Sheet

Purified Mouse Anti-FEZ1

Product Information

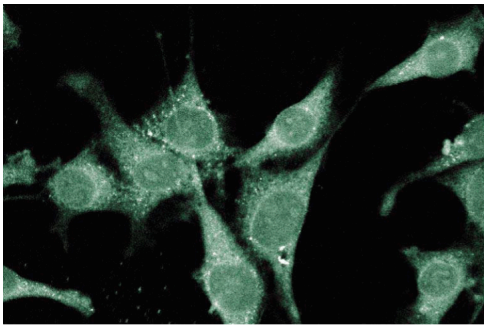
Material Number:	**611710**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	1/FEZ1
Immunogen:	Human FEZ1 aa. 381-592
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human
Target MW:	75 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The development of cancer is a multi-step process involving DNA alterations, oncogene activation, and/or the inactivation/deletion of an anti-onocogene or tumor suppressor. Tumor suppressors are involved in many facets of cell biology,such as cell cycle regulation and development. FEZ1 (**F**37/**E**sophageal cancer related gene-coding leucine **z**ipper motif) is a putative DNA-binding protein with homology to cAMP-responsive activating-transcription factor 5 (Atf-5). The structure of FEZ1 includes DNA-binding and leucine zipper domains at amino acids 301-369 , as well as a putative cAMP-dependent phosphorylation site at Ser-29. FEZ1 is ubiquitously expressed in normal tissues with the most abundant expression in testes and brain, but is absent in 31 different cancer cell lines and 16 primary tumors. In addition, the FEZ1 gene has missense mutations in two primary esophageal cancers and a nonsense mutation in a prostate cancer cell line. Several FEZ1-expressing tumors have internally truncated FEZ1 mRNA transcripts. Thus, FEZ1 inactivation in cancers may involve both allelic loss and point mutations and implicates FEZ1 in cAMP-dependent tumor suppression.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Western blot analysis of FEZ1 on a rat cerebrum lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- FEZ1 antibody.*



Immunoflourescence staining of NIH-3T3 cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal
611463	Rat Cerebrum Lysate	25 mg	

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Ishii H, Baffa R, Numata SI, et al. The FEZ1 gene at chromosome 8p22 encodes a leucine-zipper protein, and its expression is altered in multiple human tumors. *Proc Natl Acad Sci U S A*. 1999; 96(7):3928-3933.(Biology)

MacGrogan D, Levy A, Bova GS, Isaacs WB, Bookstein R. Structure and methylation-associated silencing of a gene within a homozygously deleted region of human chromosome band 8p22. *Genomics*. 1996; 35(1):55-65.(Biology)