Technical Data Sheet

Purified Mouse Anti-Mena

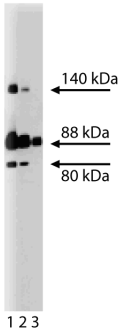
Product Information

Material Number:	**610692**
Alternate Name:	Mammalian Ena (Enabled)
Size:	50 µg
Concentration:	250 µg/ml
Clone:	21/Mena
Immunogen:	Mouse Mena aa. 415-541
Isotype:	Mouse IgA
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Chicken
Target MW:	140, 88, 80 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

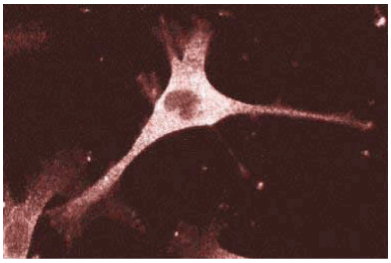
Description

Abl and Disabled (Dab) are essential for correct axonal connections during Drosophila development. Mutations in Enabled (Ena) rescue the genetic defects caused by mutated Abl and Dab. Mena (Mammalian Ena) is a protein with significant homology to Eva, VASP, and WASP proteins. The murine Mena gene predicts a protein of 541 amino acids. However, two additional exons that could introduce 246 amino acids onto the C-terminal region have been identified. Homology searches identified two EVH domains (Ena-Vasp homology), one near each terminus of Mena. Antibodies to Mena detect 80 kDa, 88 kDa, and 140 kDa protein with the 80 kDa and 88 kDa proteins being widely expressed and the 140 kDa protein reportedly mainly found in brain tissue. Like VASP, Mena is localized to focal contacts and, when ectopically expressed, induces the formation of F-actin outgrowths in fibroblasts.

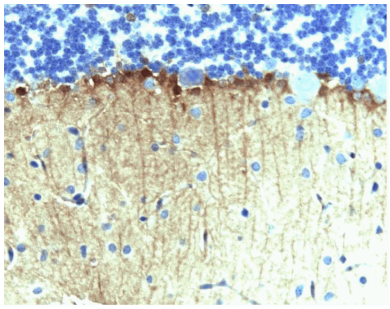
This antibody is routinely tested by Western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Mena on a SW13 cell lysate (Human adrenal gland carcinoma; ATCC CCL-105). *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- Mena antibody.*



Immunofluorescence staining of human endothelial cells.



Immunohistochemical staining on rat cerebellum, formalin-fixed paraffin embedded tissue, with citrate pre-treatment (40X magnification).

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
Immunohistochemistry	Tested During Development
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611475	SW-13 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.

References

Drees B, Friederich E, Fradelizi J, Louvard D, Beckerle MC, Golsteyn RM. Characterization of the interaction between zyxin and members of the Ena/vasodilator-stimulated phosphoprotein family of proteins. *J Biol Chem.* 2000; 275(29):22503-22511.(Biology: Immunofluorescence, Western blot)

Garcia Arguinzonis MI, Galler AB, Walter U, Reinhard M, Simm A. Increased spreading, Rac/p21-activated kinase (PAK) activity, and compromised cell motility in cells deficient in vasodilator-stimulated phosphoprotein (VASP). *J Biol Chem.* 2002; 277(47):45604-45610.(Biology: Western blot)

Gertler FB, Niebuhr K, Reinhard M, Wehland J, Soriano P. Mena, a relative of VASP and Drosophila Enabled, is implicated in the control of microfilament dynamics. *Cell.* 1996; 87(2):227-239.(Biology)

Howe AK, Hogan BP, Juliano RL. Regulation of vasodilator-stimulated phosphoprotein phosphorylation and interaction with Abl by protein kinase A and cell adhesion. *J Biol Chem.* 2002; 277(41):38121-38126.(Biology: Western blot)