Datasheet for ABIN968115

anti-ENAH antibody (AA 415-541)

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Overview

Quantity:	150 µg
Target:	ENAH
Binding Specificity:	AA 415-541
Reactivity:	Human, Mouse, Rat, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ENAH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Mouse Mena aa. 415-541
Clone:	21-Mena
Isotype:	IgA
Cross-Reactivity:	Human, Rat (Rattus), Chicken
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us 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.

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Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ENAH
Alternative Name:	Mena (ENAH Products)
Background:	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. Synonyms: Mammalian Ena (Enabled)
Molecular Weight:	140, 88, 80 kDa

Application Details

Comment:	Related Products: ABIN968552, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

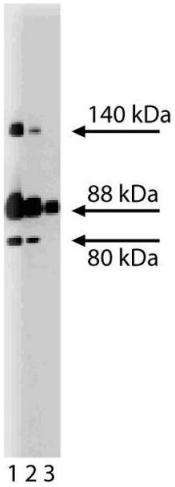
Howe, Hogan, Juliano: "Regulation of vasodilator-stimulated phosphoprotein phosphorylation and interaction with Abl by protein kinase A and cell adhesion." in: **The Journal of biological chemistry**, Vol. 277, Issue 41, pp. 38121-6, (2002) (PubMed).

García Arguinzonis, Galler, Walter, Reinhard, Simm: "Increased spreading, Rac/p21-activated kinase (PAK) activity, and compromised cell motility in cells deficient in vasodilator-stimulated phosphoprotein (VASP)." in: **The Journal of biological chemistry**, Vol. 277, Issue 47, pp. 45604-10, (2002) (PubMed).

Drees, Friederich, Fradelizi, Louvard, Beckerle, Golsteyn: "Characterization of the interaction between zyxin and members of the Ena/vasodilator-stimulated phosphoprotein family of proteins." in: **The Journal of biological chemistry**, Vol. 275, Issue 29, pp. 22503-11, (2000) (PubMed).

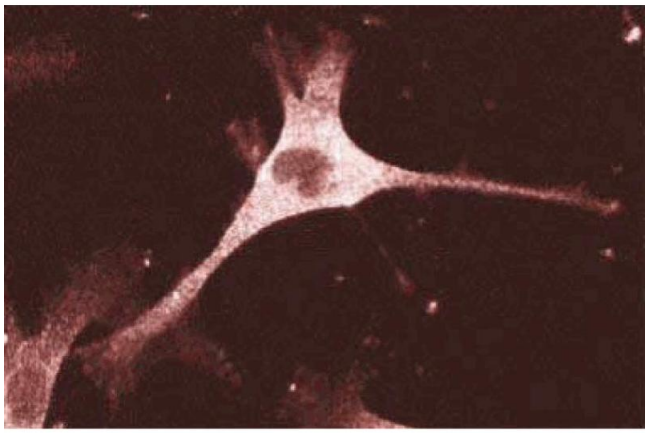
Gertler, Niebuhr, Reinhard, Wehland, Soriano: "Mena, a relative of VASP and Drosophila Enabled, is implicated in the control of microfilament dynamics." in: **Cell**, Vol. 87, Issue 2, pp. 227-39, (1996) (PubMed).

Images



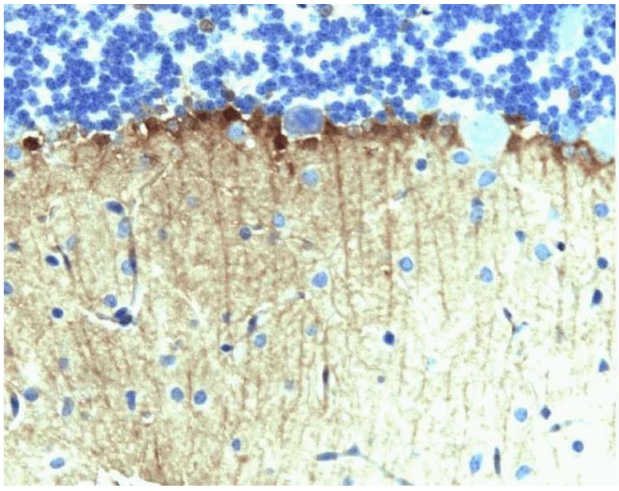
Western Blotting

Image 1. 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

Image 2. Immunofluorescence staining of human endothelial cells.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemical staining on rat cerebellum, formalin-fixed paraffin embedded tissue, with citrate pre-treatment (40X magnification).

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