



Mena (N504) polyclonal antibody

Catalog: BS9466

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Mena (mammalian enabled), EVL, and VASP are members of the Ena/VASP family, which is involved in controlling cell shape and cell movement by shielding actin filaments from capping proteins. Ena/VASP proteins have three specific domains: an amino-terminal EVH1 domain controlling protein localization; a central proline-rich domain mediating interactions with both SH3 and WW domain containing proteins, including profilin; and a carboxy-terminal domain causing tetramerization and binding to actin. Mena interacts with actin filaments at the growing ends localizing to lamellipodia and to tips of growth cone filopodia in neurons. Axons projecting from interhemispheric cortico-cortical neurons are misrouted in newborn, homozygous Mena knock-out mice. Mena is phosphorylated at Ser236 by PKA, thereby promoting filopodial formation and elongation in the growth cone. Three forms of Mena corresponding to 80, 88 and 140 kD are known. The 80 kD protein is broadly expressed in contrast to the 140 kD protein which is enriched in neural cell types. Alternative splicing produces these forms. The 88 kD protein is mainly found in embryonic cell types and is likely the result of post-translational modification. Expression of all three forms is completely eliminated in Mena homozygous mutant animals.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 88, 130 kDa

Swiss-Prot:

Q8N8S7

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Mena (N504) polyclonal antibody detects endogenous levels of Mena protein.

DATA:

Western blot (WB) analysis of Mena (N504) polyclonal antibody at 1:500 dilution

Lane1:MCF-7 whole cell lysate(20ug)

Lane2:Beas-2B whole cell lysate(40ug)

Lane3:The Prostate tissue lysate of Rat(40ug)

Lane4:The Embryo tissue lysate of Mouse(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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