SANTA CRUZ BIOTECHNOLOGY, INC.

EVL (H-50): sc-25532

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

EVL (Ena/VASP-like protein) is an Actin-binding protein that belongs to the Mena/VASP protein family. EVL is expressed in filopodial tips and localizes to the edge of the lamellipodia and focal adhesions. In epithelial cells, EVL localizes to the membrane of the lateral domain. EVL contains an N-terminal EVH1 domain, a proline-rich core and a C-terminal EVH2 domain. Via its proline-rich domain, EVL interacts with the SH3 domain of spectrin all and the LIM domain of TES. EVL is closely related to VASP (vasodilator-stimulated phosphoprotein) and Mena (for mammalian enabled protein). Mena is highly expressed in the developing nervous system and may be involved in growth cone motility and axon guidance; VASP is involved in the maintenance of cytoarchitecture by interacting with Actin-like filaments. All three proteins, EVL, Mena and VASP, are involved in cell motility and the regulation of cytoskeletal organization and dynamics.

REFERENCES

1. Laurent, V., et al. 1999. Role of proteins of the Ena/VASP family in Actin-based motility of *Listeria* monocytogenes. J. Cell Biol. 144: 1245-1258.
2. Lambrechts, A., et al. 2000. cAMP-dependent protein kinase phosphorylation of EVL, a Mena/VASP relative, regulates its interaction with Actin and SH3 domains. J. Biol. Chem. 275: 36143-36151.

CHROMOSOMAL LOCATION

Genetic locus: EVL (human) mapping to 14q32.2; Evl (mouse) mapping to 12 F1.

SOURCE

EVL (H-50) is a rabbit polyclonal antibody raised against amino acids 1-50 of EVL of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EVL (H-50) is recommended for detection of EVL of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EVL (H-50) is also recommended for detection of EVL in additional species, including equine, canine and porcine.

Suitable for use as control antibody for EVL siRNA (h): sc-62286, EVL siRNA (m): sc-62287, EVL shRNA Plasmid (h): sc-62286-SH, EVL shRNA Plasmid (m): sc-62287-SH, EVL shRNA (h) Lentiviral Particles: sc-62286-V and EVL shRNA (m) Lentiviral Particles: sc-62287-V.

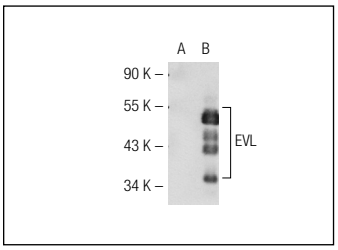
Molecular Weight of EVL: 56 kDa.

Positive Controls: EVL (h): 293T Lysate: sc-114947 or Ramos cell lysate: sc-2216.

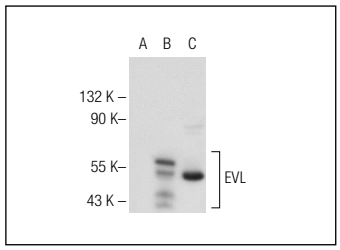
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



EVL (H-50): sc-25532. Western blot analysis of EVL expression in non-transfected: sc-117752 (**A**) and human EVL transfected: sc-114947 (**B**) 293T whole cell lysates.



EVL (H-50): sc-25532. Western blot analysis of EVL expression in non-transfected 293T: sc-117752 (**A**), human EVL transfected 293T: sc-170241 (**B**) and Ramos (**C**) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.