SANTA CRUZ BIOTECHNOLOGY, INC.

Vinexin (N-19): sc-14144

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Vinexin, also known as SORBS3 or SCAM1, is a cytoskeletal protein that is expressed as three isoforms, designated Vinexin α, β and γ. Suggested to play pivotal roles in cell adhesion, cytoskeletal organization and cell signaling, Vinexin isoforms function to promote up-regulation of actin stress fiber formation as well as activation of the JNK pathway in response to EGF stimulation. Vinexin contains three SH3 domains and one sorbin homology (SoHo) domain and binds to vinculin through its first two SH3 domains at the proline rich region of vinculin, and to SOS (guanine nucleotide exchange factor of RAS and RAC) through its third SH3 domain. Vinexin is expressed in a variety of tissues including placenta, heart, liver, brain, pancreas and skeletal muscle with localization at focal adhesion sites, cell-cell junctions and cell-extracellular matrix junctions. The β isoform localizes to the nucleus.

CHROMOSOMAL LOCATION

Genetic locus: SORBS3 (human) mapping to 8p21.3; Sorbs3 (mouse) mapping to 14 D2.

SOURCE

Vinexin (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Vinexin 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.

Blocking peptide available for competition studies, sc-14144 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

Vinexin (N-19) is recommended for detection of Vinexin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Vinexin (N-19) is also recommended for detection of Vinexin in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Vinexin siRNA (h): sc-40342, Vinexin siRNA (m): sc-40343, Vinexin shRNA Plasmid (h): sc-40342-SH, Vinexin shRNA Plasmid (m): sc-40343-SH, Vinexin shRNA (h) Lentiviral Particles: sc-40342-V and Vinexin shRNA (m) Lentiviral Particles: sc-40343-V.

Molecular Weight of Vinexin α: 82 kDa.

Molecular Weight of Vinexin β: 37 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA

Vinexin (N-19): sc-14144. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of myocytes.

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.

MONOS Satisfaction Guaranteed

Try **Vinexin (D-4): sc-398275**, our highly recommended monoclonal alternative to Vinexin (N-19).