SANTA CRUZ BIOTECHNOLOGY, INC.

AMIGO1 (H-119): sc-135331

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The amphoterin-induced gene and ORF (AMIGO) family of proteins consists of AMIGO1, AMIGO2 and AMIGO3. All three members are single pass type I membrane proteins that contain several leucine-rich repeats, one IgG domain and a transmembrane domain. The AMIGO proteins are specifically expressed on fiber tracts of neuronal tissues and participate in their formation. They can form complexes with each other, but can also self-bind. AMIGO1, also designated Alivin2, promotes growth and fasciculation of neurites and plays a role in myelination and fasciculation of developing neural axons. In cerebellar neurons, AMIGO2 (Alivin1) is crucial for depolarization-dependent survival. Similar to AMIGO1 and AMIGO2, AMIGO3 (Alivin3) plays a role in homophilic and/or heterophilic cell-cell interaction and signal transduction.

CHROMOSOMAL LOCATION

Genetic locus: AMIGO1 (human) mapping to 1p13.3; Amigo1 (mouse) mapping to 3 F2.3.

SOURCE

AMIGO1 (H-119) is a rabbit polyclonal antibody raised against amino acids 269-387 mapping within an internal region of AMIGO1 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.

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.

APPLICATIONS

AMIGO1 (H-119) is recommended for detection of AMIGO1 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).

AMIGO1 (H-119) is also recommended for detection of AMIGO1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AMIGO1 siRNA (h): sc-60162, AMIGO1 siRNA (m): sc-60163, AMIGO1 shRNA Plasmid (h): sc-60162-SH, AMIGO1 shRNA Plasmid (m): sc-60163-SH, AMIGO1 shRNA (h) Lentiviral Particles: sc-60162-V and AMIGO1 shRNA (m) Lentiviral Particles: sc-60163-V.

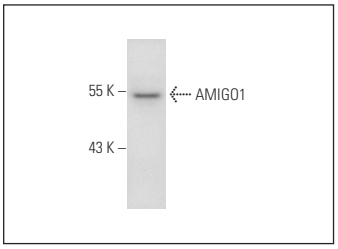
Molecular Weight of AMIGO1: 55 kDa.

Positive Controls: F9 cell lysate: sc-2245, NIH/3T3 whole cell lysate: sc-2210 or T3 671 cell lysate.

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



AMIGO1 (H-119): sc-135331. Western blot analysis of AMIGO1 expression in F9 whole cell lysate.

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **AMIGO1 (H-4): sc-374418** or **AMIGO1 (C-10): sc-374419**, our highly recommended monoclonal alternatives to AMIGO1 (H-119).