SANTA CRUZ BIOTECHNOLOGY, INC.

AMIGO2 (H-44): sc-99229



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. AMIGO proteins can form complexes with each other, but can also bind themselves. AMIGO1, also designated Alivin 2, promotes growth and fasciculation of neurites and plays a role in myelination and fasciculation of developing neural axons. In cerebellar neurons, AMIGO2 (Alivin 1) is crucial for depolarization-dependent survival. Similar to AMIGO1 and AMIGO2, AMIGO3 (Alivin 3) plays a role in homophilic and/or heterophilic cell-cell interaction and signal transduction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMIGO2 (human) mapping to 12q13.11; Amigo2 (mouse) mapping to 15 F1.

SOURCE

AMIGO2 (H-44) is a rabbit polyclonal antibody raised against amino acids 41-84 mapping near the N-terminus of AMIGO2 of human origin.

PRODUCT

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

APPLICATIONS

AMIGO2 (H-44) is recommended for detection of AMIGO2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

AMIGO2 (H-44) is also recommended for detection of AMIGO2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AMIGO2 siRNA (h): sc-60164, AMIGO2 siRNA (m): sc-60165, AMIGO2 shRNA Plasmid (h): sc-60164-SH, AMIGO2 shRNA Plasmid (m): sc-60165-SH, AMIGO2 shRNA (h) Lentiviral Particles: sc-60164-V and AMIGO2 shRNA (m) Lentiviral Particles: sc-60165-V.

Molecular Weight of AMIG02: 66 kDa.

Positive Controls: Y79 cell lysate: sc-2240.

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.

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.

MONOS Satisfation Guaranteed

Try **AMIGO2 (G-7): sc-373699**, our highly recommended monoclonal alternative to AMIGO2 (H-44).