

Anti- AMIGO-1

Catalog# SMC-438D

Size: 100 μ g
PO Box 55036, Cadboro Bay
3825 Cadboro Bay Road,
Victoria, BC, V8N 4G0, Canada

This product is for *in vitro* research use only and is not intended for use in humans or animals

Product	Mouse anti-AMIGO-1 monoclonal
Clone	S86-36
Immunogen	Fusion protein amino acids 554-574 (cytoplasmic C-terminus) of human AMIGO-1, accession number Q86WK6
Host and Subclass	Mouse monoclonal, IgG ₁
Cited Applications	WB, ICC, IHC
Specificity	Detects 60-80kDa depending on maturity/glycosylation. Does not bind AMIGO-2 or 3.
Species cross- reactivity	Mouse, Human, Rat
Format	Protein G Purified. In PBS pH7.4, 50% glycerol and 0.09% sodium azide.
Concentration	1mg/mL; 1:1000 WB
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Scientific Background

The amphoteric-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 hemophilic and/or heterophilic cell-cell interaction and signal transduction.

StressMarq

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Selected References

1. Kuja-Panula J., Kiiltomäki M., Yamashiro T., Rouhiainen A. and Rauvala H. (2003) *J. Cell Biol.* 160: 963-973.
2. Clark H.F., et al. (2003) *Genome Res.* 13: 2265-2270.
3. On, T., Sekino-Suzuki N., Kikkawa Y., Yonekawa H. and Kawashima S. (2003) *J. Neurosci.* 23: 5887-5896.
4. Chen Y., Aulia S., Li L. and Tang B.L. (2006) *Brain Res. Brain Res. Rev.* 51: 265-274.

Certificate of Analysis

1 μ g/mL of SMC-438 was sufficient for detection of AMIGO-1 in 20 μ g of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Material Safety Data Sheet

Anti- AMIGO-1 (Monoclonal Antibody) SMC-438

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of mouse immunoglobulin in PBS containing 0.09% azide in 50% glycerol, shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
 - Absorb on sand or vermiculite and place in closed containers for disposal.
 - Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.