



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-AMIGO-1 Antibody [S86-36]

Mouse Anti-Human AMIGO-1 Monoclonal IgG1  
Catalog No. SMC-438



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

AMIGO-1 Antibody

### Description

Mouse Anti-Human AMIGO-1 Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, ICC/IF

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Human

### Immunogen

Fusion protein amino acids 554-574 (cytoplasmic C-terminus) of human AMIGO-1

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

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Monoclonal

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**Clone Number**

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S86-36

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**Isotype**

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IgG1

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**Specificity**

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Detects ~60-80kDa depending on maturity/glycosylation.

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**Cite This Product**

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Mouse Anti-Human AMIGO1 Monoclonal, Clone S86-36 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-438)

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**Certificate Of Analysis**

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

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**Biological Description**

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**Alternative Names**

AMIGO 1 Antibody, AMIGO1 Antibody, Adhesion molecule with Ig like domain 1 Antibody, Amphoterin-induced protein 1 Antibody, Alivin-2 Antibody, Alivin 2 Antibody, Ali2 Antibody, AMIGO Antibody, KIAA1163 Antibody, Amphoterin induced gene and ORF (Amigo) Antibody, Amphoterin induced protein 1 Antibody, MGC25558 Antibody, OTTHUMP00000013379 Antibody, RP23 89M15.6 Antibody

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**Research Areas**

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Cell Structure, Neuroscience, Pre-Synaptic Markers

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**Cellular Localization**

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Axon, Cell membrane, Cell projection

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**Accession Number**

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NP\_065754.2

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**Gene ID**

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57463

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**Swiss Prot**

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Q86WK6

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**Scientific Background**

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

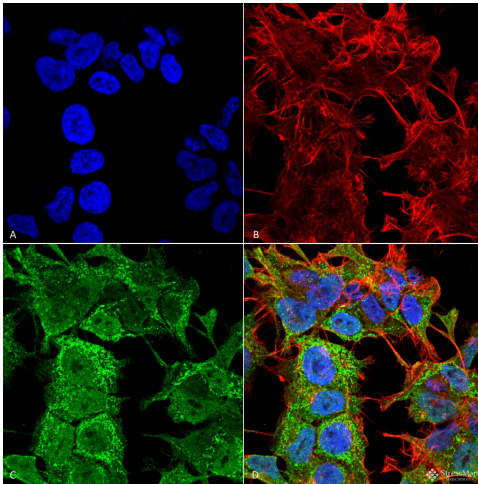
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**References**

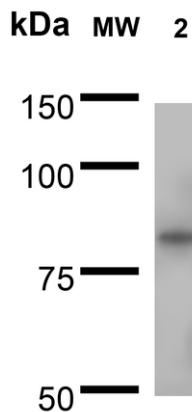
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1. Kuja-Panula J., Kiiltomäki M., Yamashiro T., Rouhiainen A. and Rauvala H. (2003) *J. Cell Biol.* 160: 963-973.
2. Clark H.F., et al. (2003) *Genome Res.* 13: 2265-2270.
3. On, T., Sekino-Suzuki N., Kikkawa Y., Yonekawa H. and Kawashima S. (2003) *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.

## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-AMIGO-1 Monoclonal Antibody, Clone S86-36 (SMC-438). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-AMIGO-1 Monoclonal Antibody (SMC-438) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) AMIGO-1 Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of 60-80 kDa AMIGO-1 protein using Mouse Anti-AMIGO-1 Monoclonal Antibody, Clone S86-36 (SMC-438). Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15  $\mu$ g. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-AMIGO-1 Monoclonal Antibody (SMC-438) at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: 60-80 kDa.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.