

# AMIGO1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13681b

## **Specification**

# AMIGO1 Antibody (C-term) - Product Information

Application WB,E
Primary Accession O86WK6

Other Accession <u>Q80ZD7</u>, <u>Q80ZD8</u>, <u>NP\_065754.2</u>

Reactivity
Predicted
Mouse, Rat
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region
Human
Mouse, Rat
Rabbit
Rabbit
Clonality
Polyclonal
Rabbit IgG
386-415

# AMIGO1 Antibody (C-term) - Additional Information

### **Gene ID 57463**

## **Other Names**

Amphoterin-induced protein 1, AMIGO-1, Alivin-2, AMIGO1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=20824" target=" blank">HGNC:20824</a>)

## Target/Specificity

This AMIGO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 386-415 amino acids from the C-terminal region of human AMIGO1.

# **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

AMIGO1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### AMIGO1 Antibody (C-term) - Protein Information

## Name AMIGO1 (HGNC:20824)

**Function** Promotes growth and fasciculation of neurites from cultured hippocampal neurons. May be involved in fasciculation as well as myelination of developing neural axons. May have a role in regeneration as well as neural plasticity in the adult nervous system. May mediate homophilic as well as heterophilic cell-cell interaction and contribute to signal transduction through its intracellular domain. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1.

## **Cellular Location**

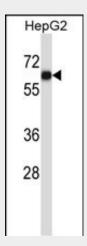
Cell membrane {ECO:0000250|UniProtKB:Q80ZD8}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q80ZD8} Perikaryon {ECO:0000250|UniProtKB:Q80ZD8}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q80ZD8}. Cell projection, axon {ECO:0000250|UniProtKB:Q80ZD7}. Note=Colocalizes with KCNB1 at high- density somatodendritic clusters on the surface of hippocampal and cortical neurons. Associated with axons of neuronal cells {ECO:0000250|UniProtKB:Q80ZD7, ECO:0000250|UniProtKB:Q80ZD8}

## AMIGO1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# AMIGO1 Antibody (C-term) - Images



AMIGO1 Antibody (C-term) (Cat. #AP13681b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the AMIGO1 antibody detected the AMIGO1 protein (arrow).

# AMIGO1 Antibody (C-term) - Background

AMIGO1 promotes growth and fasciculation of neurites from cultured hippocampal neurons. May be involved in fasciculation as well as myelination of developing neural axons. May have a role in regeneration as well as neural plasticity in the adult nervous system. May mediate homophilic as





well as heterophilic cell-cell interaction and contribute to signal transduction through its intracellular domain (By similarity).

# AMIGO1 Antibody (C-term) - References

Kottgen, A., et al. Nat. Genet. 42(5):376-384(2010) Lamesch, P., et al. Genomics 89(3):307-315(2007) Kuja-Panula, J., et al. J. Cell Biol. 160(6):963-973(2003)