

For Research Use Only

# AMIGO1 Polyclonal antibody

Catalog Number: 21874-1-AP



## Basic Information

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|---|--|--|
| <b>Catalog Number:</b><br>21874-1-AP  | <b>GenBank Accession Number:</b><br>BC040879                 | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul, Concentration: 450 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>57463                               | <b>Recommended Dilutions:</b><br>WB 1:1000-1:4000            |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q86WK6                                 |  |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>adhesion molecule with Ig-like domain 1 |  |
| <b>Immunogen Catalog Number:</b><br>AG16226   | <b>Calculated MW:</b><br>493 aa, 55 kDa                      |  |
|   | <b>Observed MW:</b><br>70-80 kDa                             |  |

## Applications

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|--|--|
| <b>Tested Applications:</b><br>WB, ELISA         | <b>Positive Controls:</b><br>WB : mouse brain tissue, rat brain tissue |
| <b>Species Specificity:</b><br>human, mouse, rat |  |

## Background Information

AMIGO1 is a brain-enriched transmembrane immunoglobulin (Ig) superfamily protein with six extracellular leucine-rich repeats (LRR) and a single immunoglobulin-like (Ig) domain (PMID: 21938721). It is widely expressed in the central nervous system (CNS), and can be found in neurons, astrocytes as well as oligodendrocytes. AMIGO1 acts as a homophilic adhesion molecule that induces outgrowth and fasciculation of neurites in central neurons (PMID: 12629050). It has been reported that AMIGO1 is a glycosylated protein, the apparent molecular weight (70-80 kDa) is much higher than the predicted molecular size of AMIGO1 (55 kDa) (PMID: 12629050; 21938721; 22056818).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

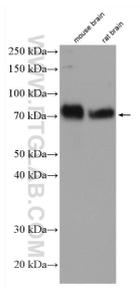
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## Selected Validation Data



mouse brain tissue and rat brain tissue were subjected to SDS PAGE followed by western blot with 21874-1-AP (AMIGO 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.