

## Mouse Kif5C-1 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP6350a

### **Specification**

Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P28738

Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - Additional Information

**Gene ID** 16574

#### **Other Names**

Kinesin heavy chain isoform 5C, Kinesin heavy chain neuron-specific 2, Kif5c, Nkhc2

### **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/product/pr oducts/AP6350a>AP6350a</a> was selected from the C-term region of human Mouse Kif5C-1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

## Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - Protein Information

Name Kif5c

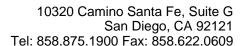
Synonyms Nkhc2

# Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - Background

Kinesins are microtubule-based motor proteins involved in the transport of organelles in eukaryotic cells. They typically consist of 2 identical, approximately 110- to 120-kD heavy chains and 2 identical, approximately 60- to 70-kD light chains. The heavy chain contains 3 domains: a globular N-terminal motor domain, which converts the chemical energy of ATP into a motile force along microtubules in 1 fixed direction; a central alpha-helical rod domain, which enables the 2 heavy chains to dimerize; and a globular C-terminal domain, which interacts with light chains and possibly an organelle receptor.

# Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - References

Yang, J. et al. Exp. Cell Res. 309 (2), 379-389 (2005)Teng, J. et al. Nat. Cell Biol. 7 (5), 474-482 (2005)Kanai, Y. et al. Neuron 43 (4), 513-525 (2004)Cai, Y. et al. J. Biol. Chem. 276 (45), 41594-41602 (2001)Kanai, Y. et al. J. Neurosci. 20 (17), 6374-6384 (2000)





### **Function**

Involved in synaptic transmission (By similarity). Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. Mediates dendritic trafficking of mRNAs (PubMed:<a href="http://www.uniprot.org/citations/19608740" target="\_blank">19608740" target="\_blank">19608740</a>). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).

#### **Cellular Location**

Cytoplasm, cytoskeleton. Cell projection, dendrite {ECO:0000250|UniProtKB:O60282}. Note=Abundant in distal regions of dendrites. {ECO:0000250|UniProtKB:O60282}

# Mouse Kif5C-1 Antibody (C-term) Blocking Peptide - Protocols

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

• Blocking Peptides