

## Mouse Kif5A-1 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP6349a

### **Specification**

# Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P33175
Other Accession Q6PDY7

## Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - Additional Information

### **Gene ID** 16572

#### **Other Names**

Kinesin heavy chain isoform 5A, Kinesin heavy chain neuron-specific 1, Neuronal kinesin heavy chain, NKHC, Kif5a, Kiaa4086, Kif5, Nkhc1

### **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP6349a>AP6349a</a> was selected from the C-term region of human Mouse Kif5A-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 Kif5A-1 Antibody (C-term) Blocking Peptide - Protein Information

### Name Kif5a

Synonyms Kiaa4086, Kif5, Nkhc1

#### **Function**

Microtubule-dependent motor required for slow axonal transport of neurofilament proteins (NFH, NFM and NFL) (PubMed:<a href="http://www.uniprot.org/citations/12682084" target="\_blank">12682084</a>). Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner. The ZFYVE27-KIF5A complex contributes to the vesicular transport of VAPA, VAPB, SURF4, RAB11A, RAB11B and RTN3 proteins in neurons (PubMed:<a href="http://www.uniprot.org/citations/21976701" target="\_blank">21976701</a>). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity).



**Cellular Location** 

Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q6QLM7}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q6QLM7}. Perikaryon {ECO:0000250|UniProtKB:Q6QLM7}. Note=Concentrated in the cell body of the neurons, particularly in the perinuclear region {ECO:0000250|UniProtKB:Q6QLM7}

## Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - Protocols

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

#### Blocking Peptides

Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - Images

# Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - Background

Kif5A is a member of the kinesin family of proteins. Members of this family are part of a multisubunit complex that functions as a microtubule motor in intracellular organelle transport. Mutations in this protein cause autosomal dominant spastic paraplegia 10.

# Mouse Kif5A-1 Antibody (C-term) Blocking Peptide - References

Fichera, M., et al., Neurology 63(6):1108-1110 (2004). Reid, E., et al., Am. J. Hum. Genet. 71(5):1189-1194 (2002). Kanai, Y., et al., J. Neurosci. 20(17):6374-6384 (2000). Reid, E., et al., Am. J. Hum. Genet. 65(3):757-763 (1999). Rahman, A., et al., J. Cell Biol. 146(6):1277-1288 (1999).