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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 AP6350a 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:19608740). 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