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KIF3B Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17242a

Specification

KIF3B Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O15066

KIF3B Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 9371

Other Names
Kinesin-like protein KIF3B, HH0048, Microtubule plus end-directed kinesin motor 3B, Kinesin-like protein KIF3B, N-terminally processed, KIF3B, KIAA0359

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.

KIF3B Antibody (N-term) Blocking Peptide - Protein Information

Name KIF3B

Synonyms KIAA0359

Function
Microtubule-based molecular motor that transport intracellular cargos, such as vesicles, organelles and protein complexes. Uses ATP hydrolysis to generate force to bind and move along the microtubule (By similarity). Plays a role in cilia formation (PubMed:32386558). Involved in photoreceptor integrity and opsin trafficking in rod photoreceptors (PubMed:32386558). Transports vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit GRIN2A into neuronal dendrites (By similarity).

Cellular Location
Cytoplasm, cytoskeleton. Cell projection, cilium {ECO:0000250|UniProtKB:Q61771}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q61771}

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KIF3B Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

KIF3B Antibody (N-term) Blocking Peptide - Images

KIF3B Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene acts as a heterodimerwith kinesin family member 3A to aid in chromosome movement duringmitosis and meiosis. The encoded protein is a plus end-directedmicrotubule motor and can interact with the SMC3 subunit of thecohesin complex. In addition, the encoded protein may be involvedin the intracellular movement of membranous organelles. Thisprotein and kinesin family member 3A form the kinesin II subfamilyof the kinesin superfamily.

KIF3B Antibody (N-term) Blocking Peptide - References

Reed, A.A., et al. Am. J. Physiol. Renal Physiol. 298 (2), F365-F380 (2010) :Keil, R., et al. J. Cell. Sci. 122 (PT 8), 1174-1183 (2009) :Schonteich, E., et al. J. Cell. Sci. 121 (PT 22), 3824-3833 (2008) :Wu, Y., et al. Hum. Mol. Genet. 15(22):3280-3292(2006)Haraguchi, K., et al. J. Biol. Chem. 281(7):4094-4099(2006)