

KIF5B Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16898b**Specification**

KIF5B Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P33176](#)**KIF5B Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3799**Other Names**

Kinesin-1 heavy chain, Conventional kinesin heavy chain, Ubiquitous kinesin heavy chain, UKHC, KIF5B, KNS, KNS1

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.

KIF5B Antibody (C-term) Blocking Peptide - Protein Information**Name** KIF5B ([HGNC:6324](#))**Synonyms** KNS, KNS1**Function**

Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes. Can induce formation of neurite-like membrane protrusions in non-neuronal cells in a ZFYVE27-dependent manner (By similarity). Regulates centrosome and nuclear positioning during mitotic entry. During the G2 phase of the cell cycle in a BICD2- dependent manner, antagonizes dynein function and drives the separation of nuclei and centrosomes (PubMed:20386726). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity). Through binding with PLEKHM2 and ARL8B, directs lysosome movement toward microtubule plus ends (Probable). Involved in NK cell-mediated cytotoxicity. Drives the polarization of cytolytic granules and microtubule-organizing centers (MTOCs) toward the immune synapse between effector NK lymphocytes and target cells (PubMed:24088571).

Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q2PQA9}. Cytolytic granule membrane.

Lysosome membrane; Peripheral membrane protein; Cytoplasmic side Note=Uniformly distributed between soma and neurites in hippocampal neurons. {ECO:0000250|UniProtKB:Q2PQA9}

KIF5B Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KIF5B Antibody (C-term) Blocking Peptide - Images

KIF5B Antibody (C-term) Blocking Peptide - Background

Microtubule-dependent motor required for normal distribution of mitochondria and lysosomes (By similarity).

KIF5B Antibody (C-term) Blocking Peptide - References

Seeger, M.A., et al. J. Biol. Chem. 285(11):8155-8162(2010)Trejo, H.E., et al. FASEB J. 24(2):374-382(2010)Morton, A.M., et al. Biochem. Biophys. Res. Commun. 391(1):388-393(2010)Zadeh, A.D., et al. J. Physiol. (Lond.) 587 (PT 19), 4565-4574 (2009) :Wong, Y.L., et al. Biophys. J. 96(7):2799-2807(2009)