

KD-Validated Anti-Kinesin family member 5B Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1383

Product Information

Application	WB, FC, ICC
Primary Accession	P33176
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB4030
Calculated MW	109685
Gene Name	KIF5B
Aliases	KIF5B; Kinesin Family Member 5B; UKHC; KNS; Ubiquitous Kinesin Heavy Chain; KNS1; Conventional Kinesin Heavy Chain; Kinesin-1 Heavy Chain; Epididymis Secretory Protein Li 61; Kinesin 1 (110-120kD); Kinesin Heavy Chain; HEL-S-61; KINH
Immunogen	A synthesized peptide derived from human KIF5B

Additional Information

Gene ID	3799
Other Names	Kinesin-1 heavy chain, Conventional kinesin heavy chain, Ubiquitous kinesin heavy chain, UKHC, KIF5B (HGNC:6324), KNS, KNS1

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}

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