KIF13B Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	KIF13B, Monoclonal Antibody
Full Product Name	KIF13B (Kinesin Family Member 13B, GAKIN, KIAA0639) (MaxLight 490)
Product Gene Name	anti-KIF13B antibody
Product Synonym Names	Kinesin Family Member 13B; GAKIN; KIAA0639
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6.0e+11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes KIF13B.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	203kDa
OMIM	607350
3D Structure	ModBase 3D Structure for Q9NQT8
Immunogen	KIF13B (NP_056069, 1aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MGDSKVKVAVRIRPMNRRETDLHTKCVVDVDANKVILNPVNTNLSKGDARGQPKVFAYDHCFWSMDESVKEKYAGQDIVFKCLGENILQNAFDGYNACI
Conjugate	MaxLight490
Product Categories/Family for anti-KIF13B antibody	Antibodies; Motor Proteins
Applications Tested/Suitable for anti-KIF13B antibody	Western Blot (WB)
Application Notes for anti-KIF13B antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-KIF13B antibody	MBS6207044 is an antibody targeting KIF13B. Also known as KIF13B (Kinesin Family Member 13B, GAKIN, KIAA0639) (MaxLight 490). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant KIF13B.

Other Notes	Small volumes of anti-KIF13B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIF13B. It may not necessarily be applicable to this product.

NCBI GI #	46852172
NCBI GeneID	23303
NCBI Accession #	NP_056069
UniProt Primary Accession #	Q9NQT8
UniProt Related Accession #	Q9NQT8
GenBank Nucleotide #	NM_015254
NCBI Official Full Name	kinesin-like protein KIF13B
NCBI Official Synonym Full Names	kinesin family member 13B
NCBI Official Symbol	KIF13B
NCBI Official Synonym Symbols	GAKIN
UniProt Protein Name	Kinesin-like protein KIF13B
UniProt Synonym Protein Names	Kinesin-like protein GAKIN
Protein Family	Kinesin-like protein
UniProt Gene Name	KIF13B
UniProt Synonym Gene Names	GAKIN; KIAA0639
UniProt Entry Name	KI13B_HUMAN
NCBI Protein Information	kinesin-like protein KIF13B
UniProt Comments for KIF13B	KIF13B: Involved in reorganization of the cortical cytoskeleton. Regulates axon formation by promoting the formation of extra axons. May be functionally important for the intracellular trafficking of MAGUKs and associated protein complexes. Belongs to the kinesin-like protein family. Protein type: Motor; Microtubule-binding Chromosomal Location of Human Ortholog: 8p12 Cellular Component: microtubule; kinesin complex; axon; cytoplasm Molecular Function: protein binding; microtubule binding; microtubule motor activity; protein kinase binding; ATP binding Biological Process: T cell activation; metabolic process; signal transduction; regulation of axonogenesis; microtubule-based movement; protein targeting
Research Articles on KIF13B	**1.** Study provides evidence that KIF13B and NPHP4 are both required for establishment of a specialized caveolin-1 membrane microdomain at the ciliary transition zone, which is essential for Shh-induced accumulation of SMO in the primary cilium as well as for activation of GLI-mediated target gene expression.
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