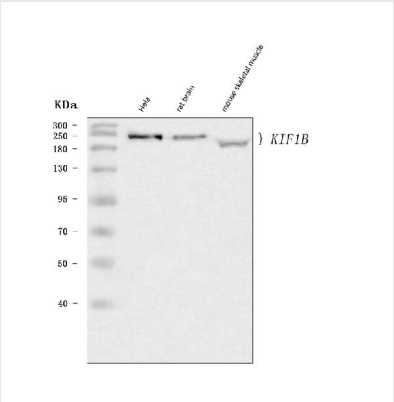
KIF1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KIF1B, Polyclonal Antibody
Full Product Name	Anti-KIF1B Antibody Picoband
Product Gene Name	anti-KIF1B antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	1816
OMIM	phenotype 605995
3D Structure	ModBase 3D Structure for O60333
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human KIF1B recombinant protein (Position: D390-L1314).
Product Categories/Family for anti-KIF1B antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-KIF1B antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-KIF1B antibody	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-KIF1B antibody	Kinesin-like protein KIF1B is a protein that in humans is encoded by the KIF1B gene. This gene encodes a motor protein that transports mitochondria and synaptic vesicle precursors. Mutations in this gene cause Charcot-Marie-Tooth disease, type 2A1.
Other Notes	Small volumes of anti-KIF1B 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.
Searchable Terms for KIF1B purchase	MBS1755166 is an antibody targeting KIF1B. Also known as Anti-KIF1B Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-KIF1B antibody

Figure 1. Western blot analysis of KIF1B using anti-KIF1B antibody (MBS1755166).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse skeletal muscle tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KIF1B antigen affinity purified polyclonal antibody (#MBS1755166) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for KIF1B at approximately 204 kDa or 199 kDa. The expected band size for KIF1B is at 204 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KIF1B. It may not necessarily be applicable to this product.

NCBI GI #	116242605
NCBI GeneID	23095
NCBI Accession #	O60333.5
UniProt Primary Accession #	O60333
UniProt Secondary Accession #	Q4VXC3; Q4VXC4; Q4VXC5; Q4VXC6; Q96Q94; Q9BV80; Q9P280; A6NFS8; A6NKQ4
UniProt Related Accession #	O60333
NCBI Official Full Name	Kinesin-like protein KIF1B
NCBI Official Synonym Full Names	kinesin family member 1B
NCBI Official Symbol	KIF1B
NCBI Official Synonym Symbols	KLP; CMT2; CMT2A; CMT2A1; HMSNII; NBLST1
UniProt Protein Name	Kinesin-like protein KIF1B
Protein Family	Kinesin-like protein
UniProt Gene Name	KIF1B
UniProt Synonym Gene Names	KIAA0591; KIAA1448; Klp
UniProt Entry Name	KIF1B_HUMAN
NCBI Protein Information	kinesin-like protein KIF1B; kinesin superfamily protein KIF1B
NCBI Summary for KIF1B	This gene encodes a motor protein that transports mitochondria and synaptic vesicle precursors. Mutations in this gene cause Charcot-Marie-Tooth disease, type 2A1. [provided by RefSeq, Jul 2008]

UniProt Comments for KIF1B	KIF1B: a member of the kinesin motor protein family. Motor for anterograde transport of mitochondria. May play a role in synaptic vesicle transport. Has a microtubule plus end-directed motility. Aberrant expression seen in neuroblastoma. Mutated in Charcot-Marie-Tooth disease. Protein type: Microtubule-binding; Motor Chromosomal Location of Human Ortholog: 1p36.2 Cellular Component: microtubule; kinesin complex; neuron projection; microtubule associated complex; cytoplasmic vesicle membrane; mitochondrion; cytoplasmic vesicle Molecular Function: protein binding; kinesin binding; plus-end-directed microtubule motor activity; microtubule binding; ATPase activity; microtubule motor activity; ATP binding Biological Process: vesicle-mediated transport; apoptosis; metabolic process; neuromuscular synaptic transmission; nerve-nerve synaptic transmission; cytoskeleton-dependent intracellular transport; anterograde axon cargo transport; microtubule-based movement; mitochondrion transport along microtubule Disease: Charcot-marie-tooth Disease, Axonal, Type 2a1; Neuroblastoma, Susceptibility To; Pheochromocytoma
Research Articles on KIF1B	**1.** The meta-analysis showed a significant association between kinesin family member 1B (KIF1B) single nucleotide polymorphism (rs17401966) and hepatocellular carcinoma (HCC).
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