



KLC1 Monoclonal Antibody

Catalog No	YP-mAb-07672
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	KLC1 KLC KNS2
Protein Name	Kinesin light chain 1 (KLC 1)
Immunogen	Synthesized peptide derived from part region of human protein AA range: 128-178
Specificity	KLC1 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	63kD
Cell Pathway	Cell projection, growth cone . Cytoplasmic vesicle . Cytoplasm, cytoskeleton .
Tissue Specificity	Found in a variety of tissues. Mostly abundant in brain and spine.
Function	alternative products:Additional isoforms seem to exist. Has the potential to produce 285'919 splice forms,caution:It is uncertain whether Met-1 or Met-5 is the initiator.,function:Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. The light chain may function in coupling of cargo to the heavy chain or in the modulation of its ATPase activity.,miscellaneous:The sequence shown here is derived from an EMBL/GenBank/DDBJ third party annotation (TPA) entry.,PTM:Isoform I is phosphorylated on Ser-600. Isoform J is phosphorylated on Ser-631.,similarity:Belongs to the kinesin light chain family.,similarity:Contains 6 TPR repeats.,subunit:Oligomeric complex composed of two heavy chains and two light chains. Interacts with SPAG9.,tissue specificity:Found in a variety of tissues. Mostly abundant in brain and spine.,
Background	Conventional kinesin is a tetrameric molecule composed of two heavy chains and two light chains, and transports various cargos along microtubules toward



their plus ends. The heavy chains provide the motor activity, while the light chains bind to various cargos. This gene encodes a member of the kinesin light chain family. It associates with kinesin heavy chain through an N-terminal domain, and six tetratricopeptide repeat (TPR) motifs are thought to be involved in binding of cargos such as vesicles, mitochondria, and the Golgi complex. Thus, kinesin light chains function as adapter molecules and not motors per se. Although previously named "kinesin 2", this gene is not a member of the kinesin-2 / kinesin heavy chain subfamily of kinesin motor proteins. Extensive alternative splicing produces isoforms with different C-termini that are proposed to bind to different cargos; however, the full-

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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