

Rabbit anti-Human Kinesin light chain 1 (KLC1) Monoclonal Antibody | anti-KLC1 antibody

Kinesin light chain 1 (KLC1) Rabbit mAb

CATALOG # AAA282708	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

Kinesin light chain 1 (KLC1); Monoclonal Antibody; Kinesin light chain 1 (KLC1) Rabbit mAb; KLC; KNS2; KNS2A; anti-KLC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	GGWYKACKVD SPTVTTLKN LGALYRRQ GK FEEAETLEEA AMRSRKQGLD NVHKQRVAEV LNDPENMEKR RSRESLNVDV VKYESGPDGG EEVSMSVEWN G
Applicable Applications for anti-KLC1 antibody	ELISA, WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 450-550 of human Kinesin light chain 1 (KLC1)(Q07866).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of lysates from Mouse brain, using Kinesin light chain 1 (KLC1) Rabbit mAb (AAA282708) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



WB (Western Blot)

Western blot analysis of various lysates using Kinesin light chain 1 (KLC1) Rabbit mAb (AAA282708) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-KLC1 antibody	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-length nature and/or biological validity of most of these variants have not been determined.
Product Categories/Family for anti-KLC1 antibody	Signal Transduction; Cell Biology Developmental Biology; Cytoskeleton; Motor Proteins; Neuroscience; Cell Type Marker; Neuron marker; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	194306559
NCBI GeneID	3831
NCBI Accession #	NP_001123579.1
NCBI GenBank Nucleotide #	NM_001130107.1
UniProt Accession #	Q07866; Q7RTM2; Q7RTM3; Q7RTM5; Q7RTP9; Q7RTQ5; Q7RTQ6; Q86SF5; Q86TF5; Q86V74; Q86V75; A6NF62; Q13865; Q7RTP8; Q7RTQ0; Q7RTQ1; Q7RTQ2; Q7RTQ3; Q7RTQ4; Q7RTQ7; Q7RTQ8
Molecular Weight	Calculated MW: 65kDa Observed MW: 65kDa/75kDa
UniProt Protein Name	Kinesin light chain 1
UniProt Gene Name	KLC1
UniProt Synonym Gene Names	KLC; KNS2
UniProt Entry Name	KLC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/kinesin-light-chain-1-klc1-antibody-western-blot-elisa/282708>