

Rabbit KLC1 Polyclonal Antibody | anti-KLC1 antibody

KLC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327093	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

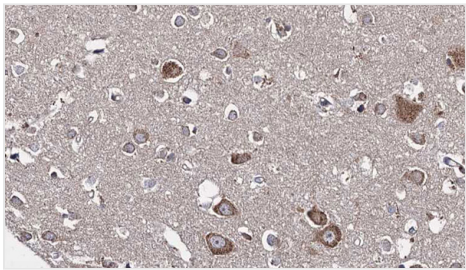
PRODUCT SYNONYMS

KLC1; Polyclonal Antibody; KLC1 Antibody; Kinesin 2 60/70kDa; Kinesin light chain 1; Kinesin2; KLC 1; KLC; Klc1; KLC1_HUMAN; KNS 2; KNS 2A; KNS2; KNS2A; Medulloblastoma antigen MU MB 2.50; MGC15245; anti-KLC1 antibody

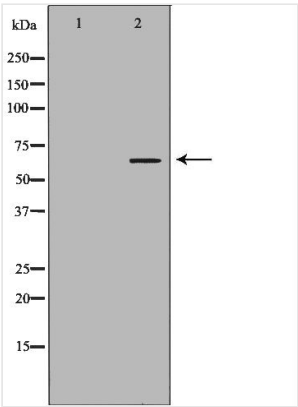
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KLC1 antibody detects endogenous levels of total KLC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	618
Applicable Applications for anti-KLC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KLC1
Subcellular Location	Cytoplasm > Cytoskeleton.
Tissue Specificity	Found in a variety of tissues. Mostly abundant in brain and spine.
Predicted Cross Reactivity	Bovine, Rabbit, Dog, Xenopus
Similarity	Bovine (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327093 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Mouse brain lysate, using KLC1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-KLC1 antibody	Description: 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. 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. Subunit Structure: Oligomeric complex composed of two heavy chains and two light chains. Interacts with SPAG9. Interacts with ATCAY; may link mitochondria to KLC1 and regulate mitochondria localization into neuron projections. Interacts (via TPR repeats) with TOR1A; the interaction associates TOR1A with the kinesin oligomeric complex. Interacts with BORCS5 (PubMed:25898167). Similarity: Belongs to the kinesin light chain family.
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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; Q7RTQ3; Q7RTQ5; Q7RTQ6; Q86SF5; Q86TF5; A6NF62; F8VTM4
Molecular Weight	Observed: 65 kDa Predicted: 66 kDa
NCBI Official Full Name	kinesin light chain 1 isoform 3
NCBI Official Synonym Full Names	kinesin light chain 1
NCBI Official Symbol	KLC1
NCBI Official Synonym Symbols	KLC; KNS2; KNS2A
NCBI Protein Information	kinesin light chain 1

UniProt Protein Name	Kinesin light chain 1
UniProt Gene Name	KLC1
UniProt Synonym Gene Names	KLC; KNS2; KLC 1

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/polyclonal/klc1-antibody-immunohistochemistry-western-blot-elisa/327093>