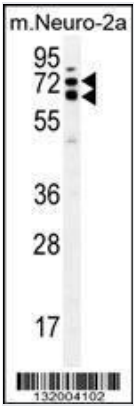
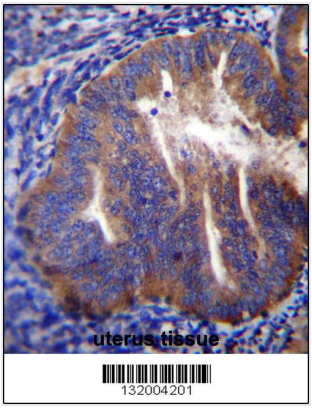
KLC2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

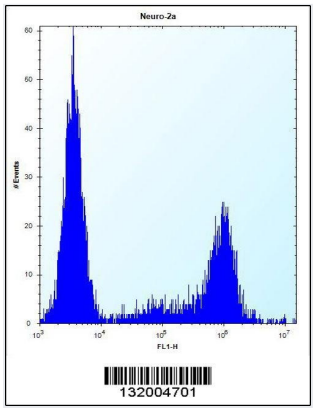
Product Name	KLC2, Polyclonal Antibody
Full Product Name	KLC2, NT (KLC2, Kinesin light chain 2)
Product Gene Name	anti-KLC2 antibody
Product Synonym Names	Anti -KLC2, NT (KLC2, Kinesin light chain 2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human, mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	68,935 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (66024765..66035332). Location: 11q13.2
OMIM	611729
3D Structure	ModBase 3D Structure for Q9H0B6
Immunogen	KLC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 127-156 amino acids from the N-terminal region of human KLC2.
Product Categories/Family for anti-KLC2 antibody	Antibodies; Abs to Proteins
Applications Tested/Suitable for anti-KLC2 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-KLC2 antibody	Suitable for use in Western Blot, Immunohistochemistry, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:10-50 Flow Cytometry: 1:10-50
Related Product Information for anti-KLC2 antibody	MBS6009608 is an antibody targeting KLC2. Also known as KLC2, NT (KLC2, Kinesin light chain 2). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-KLC2 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.



Western Blot (WB) of anti-KLC2 antibody
KLC2 Antibody (N-term) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the KLC2 antibody detected the KLC2 protein (arrow).



Immunohistochemistry (IHC) of anti-KLC2 antibody
KLC2 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human uterus tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of KLC2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-KLC2 antibody
KLC2 Antibody (N-term) flow cytometric analysis of Neuro-2a cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLC2. It may not necessarily be applicable to this product.

NCBI GI #	198041728
NCBI GeneID	64837
NCBI Accession #	NP_001128246.1
UniProt Primary Accession #	Q9H0B6
UniProt Secondary Accession #	Q9H9C8; Q9HA20; A8MXL7; B2RDY4
UniProt Related Accession #	Q9H0B6
GenBank Nucleotide #	NM_001134774.1
NCBI Official Full Name	kinesin light chain 2 isoform 2
NCBI Official Synonym Full Names	kinesin light chain 2
NCBI Official Symbol	KLC2
UniProt Protein Name	Kinesin light chain 2
Protein Family	Kinesin
UniProt Gene Name	KLC2

UniProt Synonym Gene Names	KLC 2
UniProt Entry Name	KLC2_HUMAN
NCBI Protein Information	kinesin light chain 2; KLC 2
NCBI Summary for KLC2	Kinesin is a molecular motor that generates ATP-dependent movement of vesicles and organelles along microtubules. Kinesin consists of 2 light chains, such as KLC2, and 2 heavy chains (see KIF5B; MIM 602809) in a 1:1 stoichiometric ratio (Rahman et al., 1998 [PubMed 9624122]).[supplied by OMIM, Mar 2008]
UniProt Comments for KLC2	KLC2: 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. Belongs to the kinesin light chain family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motor; Microtubule-binding Chromosomal Location of Human Ortholog: 11q13.2 Cellular Component: ciliary rootlet; microtubule; kinesin complex; neuron projection; protein complex; membrane; cytosol Molecular Function: protein binding; kinesin binding; microtubule motor activity Biological Process: metabolic process; axon cargo transport; antigen processing and presentation of exogenous peptide antigen via MHC class II; blood coagulation; microtubule-based movement
Research Articles on KLC2	**1.** For the binding of cargos shared by KLC2, we propose a different site located within the groove but not involving N343.
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