KLC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KLC3, Polyclonal Antibody
Full Product Name	KLC3, ID (KLC3, KLC2, KLC2L, Kinesin light chain 3, KLC2-like, kinesin light chain 2) (MaxLight 405)
Product Gene Name	anti-KLC3 antibody
Product Synonym Names	KLC3; KLC2; KLC2L; Kinesin light chain 3; KLC2-like; 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. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	56,793 Da
OMIM	601334
3D Structure	ModBase 3D Structure for Q6P597
Immunogen	KLC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 253-283 amino acids from the Central region of human KLC3.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-KLC3 antibody	Antibodies; Spermatogenesis; Testis Proteins
Applications Tested/Suitable for anti-KLC3 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-KLC3 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-KLC3 antibody	KLC3 encodes a member of the kinesin light chain gene family. Kinesins are molecular motors involved in the transport of cargo along microtubules, and are composed of two kinesin heavy chain (KHC) and two kinesin light chain (KLC) molecules. KLCs are thought to typically be involved in binding cargo and regulating kinesin activity. In the rat, a protein similar to this gene product is expressed in post-meiotic spermatids, where it associates with structural components of sperm tails and mitochondria.
Product References and Citations for anti-KLC3 antibody	Zhang, Y., et al. Dev. Biol. 275(1):23-33(2004). Bhullar, B., et al. J. Biol. Chem. 278(18):16159-16168(2003). Junco, A., et al. Biol. Reprod. 64(5):1320-1330(2001).

Other Notes	Small volumes of anti-KLC3 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 KLC3 purchase	MBS6313880 is an antibody targeting KLC3. Also known as KLC3, ID (KLC3, KLC2, KLC2L, Kinesin light chain 3, KLC2-like, kinesin light chain 2) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLC3. It may not necessarily be applicable to this product.

NCBI GI #	91825557
NCBI GeneID	147700
NCBI Accession #	NP_803136.2
UniProt Primary Accession #	Q6P597
UniProt Secondary Accession #	Q6GMU2; Q8NAL1; Q8WWJ9; A0AVM3; A2RUT6
UniProt Related Accession #	Q6P597
GenBank Nucleotide #	NM_177417.2
NCBI Official Full Name	kinesin light chain 3
NCBI Official Synonym Full Names	kinesin light chain 3
NCBI Official Symbol	KLC3
NCBI Official Synonym Symbols	KLC2; KLCt; KLC2L; KNS2B
UniProt Protein Name	Kinesin light chain 3
UniProt Synonym Protein Names	KLC2-like; kinesin light chain 2
Protein Family	Kinesin
UniProt Gene Name	KLC3
UniProt Synonym Gene Names	KLC2; KLC2L
UniProt Entry Name	KLC3_HUMAN
NCBI Protein Information	kinesin light chain 3; kinesin light chain 2
NCBI Summary for KLC3	This gene encodes a member of the kinesin light chain gene family. Kinesins are molecular motors involved in the transport of cargo along microtubules, and are composed of two kinesin heavy chain (KHC) and two kinesin light chain (KLC) molecules. KLCs are thought to typically be involved in binding cargo and regulating kinesin activity. In the rat, a protein similar to this gene product is expressed in post-meiotic spermatids, where it associates with structural components of sperm tails and mitochondria. [provided by RefSeq, Jul 2008]
Research Articles on KLC3	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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