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KLC3 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5349c

Specification

KLC3 Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q6P597
Other Accession	NP_803136.2

KLC3 Antibody (Center) Blocking peptide - Additional Information

Gene ID 147700

Other Names
Kinesin light chain 3, KLC2-like, kinesin light chain 2, KLC3, KLC2, KLC2L

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KLC3 Antibody (Center) Blocking peptide - Protein Information

Name KLC3

Synonyms KLC2, KLC2L

Function
Kinesin is a microtubule-associated force-producing protein that may play a role in organelle transport. Plays a role during spermiogenesis in the development of the sperm tail midpiece and in the normal function of spermatozoa (By similarity). May play a role in the formation of the mitochondrial sheath formation in the developing spermatid midpiece (By similarity).

Cellular Location
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q68G30, ECO:0000250|UniProtKB:Q91W40} Mitochondrion {ECO:0000250|UniProtKB:Q91W40}. Note=In elongating spermatid tail midpiece, localized in outer dense fibers (ODFs) and associates with mitochondria. Also localizes to the manchette in elongating spermatids. {ECO:0000250|UniProtKB:Q68G30, ECO:0000250|UniProtKB:Q91W40}

KLC3 Antibody (Center) Blocking peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

KLC3 Antibody (Center) Blocking peptide - Images

KLC3 Antibody (Center) Blocking peptide - Background

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.

KLC3 Antibody (Center) Blocking peptide - References

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)