

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

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**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**

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)