

# **KLC3 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56386

### **Specification**

**Physical State** 

# **KLC3 Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Bovine
Host
Clonality
Calculated MW
Rat, Bovine
Rabbit
Polyclonal
55 KDa

Immunogen KLH conjugated synthetic peptide derived

Liquid

laG

from human KLC3

Epitope Specificity 401-504/504

Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm > cytoskeleton. Elongating

spermatid tail midpiece, localized in outer dense fibers (ODFs) and associates with

mitochondria.

SIMILARITY Belongs to the kinesin light chain family.

**Contains 5 TPR repeats.** 

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

### **Background Descriptions**

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]

### **KLC3 Polyclonal Antibody - Additional Information**

# **Gene ID 147700**

### Other Names

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

#### **Dilutior**

<span class ="dilution\_WB">WB~~1:1000</span><br \> <span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class</pre>



="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class ="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_E">E~~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## **KLC3 Polyclonal Antibody - 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}

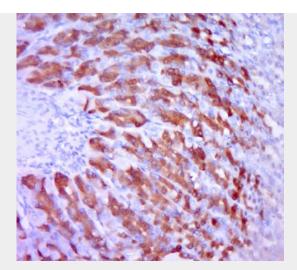
# **KLC3 Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

## **KLC3 Polyclonal Antibody - Images**





Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KLC3) Polyclonal Antibody, Unconjugated (bs-16751R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.