

# Recombinant Anti-KLC3 Rabbit mAb

Catalog # AP95299

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC, FC, IP, IF/IC |
| <b>Primary Accession</b> | <a href="#">Q6P597</a> |
| <b>Reactivity</b>        | Human, Mouse           |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Monoclonal             |
| <b>Calculated MW</b>     | 55364                  |

## Additional Information

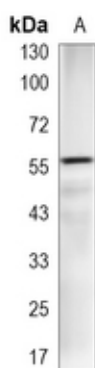
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|---------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>            | 147700                                                                                                                 |
| <b>Other Names</b>        | KLC2; KLC2L; Kinesin light chain 3; KLC2-like; kinesin light chain 2                                                   |
| <b>Target/Specificity</b> | KLH-conjugated synthetic peptide encompassing a sequence within human KLC3 protein. The exact sequence is proprietary. |
| <b>Dilution</b>           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A                                                  |
| <b>Format</b>             | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.                                                  |
| <b>Storage</b>            | Store at -20 °C.Stable for 12 months from date of receipt                                                              |

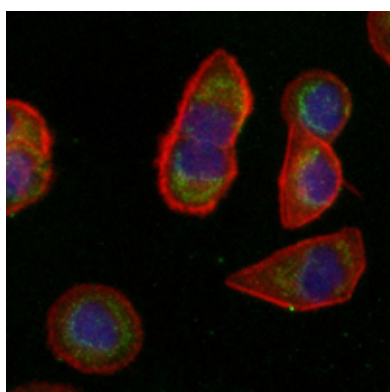
## Protein Information

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| <b>Name</b>              | KLC3                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>          | KLC2, KLC2L                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>          | 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). |
| <b>Cellular Location</b> | 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}    |



Western blot analysis of KLC3 expression in Jurkat (A) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 60 kD)



Immunofluorescent analysis of KLC3 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.