# Anti-KLC1 antibody

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|---|---|
| **Cat. No.** | ml221860 |
| **Package** | 25 µl/100 µl/200 µl |
| **Storage** | -20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol |

## Product overview

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|---|---|
| **Description** | Anti-KLC1 rabbit polyclonal antibody |
| **Applications** | ELISA, WB, IHC |
| **Immunogen** | Fusion protein of human KLC1 |
| **Reactivity** | Human, Mouse, Rat |
| **Content** | 0.5 mg/ml |
| **Host species** | Rabbit |
| **Ig class** | Immunogen-specific rabbit IgG |
| **Purification** | Antigen affinity purification |

## Target information

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| **Symbol** | KLC1 |
| **Full name** | kinesin light chain 1 |

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|---|---|
| **Synonyms** | KLC; KNS2; KNS2A |
| **Swissprot** | Q07866 |

**Target Background**

Conventional kinesin is a tetrameric molecule composed of two heavy chains and two light chains, and transports various cargos along microtubules toward their plus ends. The heavy chains provide the motor activity, while the light chains bind to various cargos. This gene encodes a member of the kinesin light chain family. It associates with kinesin heavy chain through an N-terminal domain, and six tetratricopeptide repeat (TPR) motifs are thought to be involved in binding of cargos such as vesicles, mitochondria, and the Golgi complex. Thus, kinesin light chains function as adapter molecules and not motors per se. Although previously named "kinesin 2", this gene is not a member of the kinesin-2 / kinesin heavy chain subfamily of kinesin motor proteins. Extensive alternative splicing produces isoforms with different C-termini that are proposed to bind to different cargos; however, the full-length nature and/or biological validity of most of these variants have not been determined.
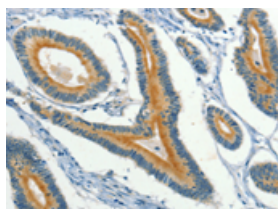
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

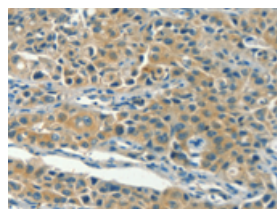Positive control: Human colon cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using ml221860(KLC1 Antibody) at dilution 1/40, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Cytoplasm

Positive control: Human lung cancer

Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using ml221860(KLC1 Antibody) at dilution 1/40, on the right is treated with fusion protein. (Original magnification: ×200)

### Western blotting

Predicted band size:65 kDa

Positive control:Lovo cells
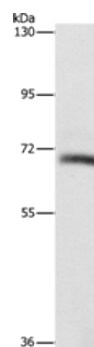
Recommended dilution: 200-1000

Gel: 6%SDS-PAGE

Lysate: 40 μg

Lane: Lovo cells

Primary antibody: ml221860(KLC1 Antibody) at dilution 1/550

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 5 seconds



**ELISA**

Recommended dilution: 1000-2000

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