# Human Kinesin light chain 1 (KLC1) ELISA Kit

Catalog No: #EK10210

Package Size: #EK10210-1 48T #EK10210-2 96T

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## Description

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| Product Name | Human Kinesin light chain 1 (KLC1) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | KLC; KNS2; KNS2A; MGC15245; kinesin 2 60/70kDa\|medulloblastoma antigen MU-MB-2.50 |
| Accession No. | Q07866 |
| Uniprot | Q07866 |
| GeneID | 3831; |
| Storage | The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.106 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate KLC1 in samples. An antibody specific for KLC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyKLC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for KLC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of KLC1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Kinesin 2 is 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 of some of these variants has not been determined.

Note: This product is for in vitro research use only