

Rat Mitochondrial import receptor subunit TOM40B (TOMM40L) ELISA Kit

Catalog No: #EK6053

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Package Size: #EK6053-1 48T #EK6053-2 96T

Description

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|--------------------|--|
| Product Name | Rat Mitochondrial import receptor subunit TOM40B (TOMM40L) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Rat (<i>Rattus norvegicus</i>) |
| Other Names | FLJ12770; RP11-297K8.10; TOMM40B; OTTHUMP0000032243 translocase of outer mitochondrial membrane 40 homolog-like |
| Accession No. | A4F267 |
| Uniprot | A4F267 |
| GeneID | 304971; |
| Storage | <p>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.</p> <p>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).</p> |

Application Details

Detect Range:Request Information

Sensitivity:Request Information

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 TOMM40L in samples. An antibody specific for TOMM40L has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTOMM40L present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOMM40L 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 TOMM40L bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The fungal preprotein translocase of the mitochondrial outer membrane (TOM complex) comprises import receptors Tom70, Tom20, and Tom22, import channel Tom40, and small Tom proteins Tom5, Tom6, and Tom7, which regulate TOM complex assembly. These components are conserved in mammals; unlike the other components, however, Tom5 and Tom6 remain unidentified in mammals. These small Tom proteins are associated with Tom40 in the TOM complex. Knockdown of Tom7, but not Tom5 and Tom6, strongly compromised stability of the TOM complex. Conversely, knockdown of hTom40 decreased the level of all small Tom proteins. Matrix import of preprotein was affected by double knockdown of any combination of small Tom proteins. These results indicate that human small Tom proteins maintain the structural integrity of the TOM complex.

Note: This product is for in vitro research use only