Human Mitochondrial import receptor subunit TOM5 homolog (TOMM5) ELISA Kit

Catalog No: #EK6051

Package Size: #EK6051-1 48T #EK6051-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Mitochondrial import receptor subunit TOM5 homolog (TOMM5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-613M10.3; C9orf105; RP11-263I4.1; Tom5; bA613M10.3; mitochondrial outer membrane protein TOM5|translocase of outer mitochondrial membrane 5 homolog
Accession No.	Q8N4H5
Uniprot	Q8N4H5
GeneID	401505;
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. 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: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 TOMM5 in samples. An antibody specific for TOMM5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTOMM5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOMM5 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 TOMM5 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