Human Mitochondrial import receptor subunit TOM70 (TOMM70A) ELISA Kit

Catalog No: #EK6047

Package Size: #EK6047-1 48T #EK6047-2 96T

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Description

Product Name	Human Mitochondrial import receptor subunit TOM70 (TOMM70A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ90470; translocase of outer mitochondrial membrane 70 homolog A
Accession No.	O94826
Uniprot	O94826
GeneID	9868;
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:0.312-20 ng/mL

Sensitivity:0.101 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 TOMM70A in samples. An antibody specific for TOMM70A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTOMM70A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TOMM70A 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 TOMM70A bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The translocase of outer mitochondrial membrane (TOM) complex is a multisubunit complex involved in the recognition, unfolding, and translocation of preproteins into the mitochondria.TOMM70A is 29% identical to the mitochondrial precursor protein import receptor of Neurospora crassa. RT-PCR analysis detected ubiquitous expression of KIAA0719, with relatively weak expression in pancreas, testis, and spleen.the cytosolic chaperones HSP90 and HSP70 dock onto a specialized tetratricopeptide domain in the import receptor TOMM70 at the outer mitochondrial membrane. This interaction served to deliver a set of preproteins to the receptor for subsequent membrane translocation dependent on the HSP90 ATPase. Disruption of the chaperone/TOMM70 recognition inhibited the import of these preproteins into mitochondria.

Note: This product is for in vitro research use only