Human Mitochondrial fission 1 protein (FIS1) ELISA Kit

Catalog No: #EK11256

Package Size: #EK11256-1 48T #EK11256-2 96T

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Description

Product Name	Human Mitochondrial fission 1 protein (FIS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CGI-135; TTC11; H_NH0132A01.6|tetratricopeptide repeat domain 11
Accession No.	Q9Y3D6
Uniprot	Q9Y3D6
GeneID	51024;
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:0.115 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 FIS1 in samples. An antibody specific for FIS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFIS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FIS1 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 FIS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The balance between fission and fusion regulates the morphology of mitochondria. TTC11 is a component of a mitochondrial complex that promotes mitochondrial fission.

The deduced 152-amino acid protein contains a central leucine zipper, a coiled-coil region, and a C-terminal transmembrane domain. It also contains a region showing high interspecies homology and a putative tetratricopeptide repeat. Immunocytochemical analysis of HeLa cells detected endogenous FIS1 expression in mitochondria. Protease treatment indicated that FIS1 is expressed at the outer mitochondrial membrane. Transfection of a C-terminal truncated FIS1 resulted in cytoplasmic expression, indicating that the C terminus is required for mitochondrial localization.

Note: This product is for in vitro research use only