

# Human Mitochondrial fission regulator 1 (MTFR1) ELISA Kit



Catalog No: #EK11502

Orders: order@signalwayantibody.com

Package Size: #EK11502-1 48T #EK11502-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Mitochondrial fission regulator 1 (MTFR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CHPPR; FAM54A2; KIAA0009; chondrocyte protein with a poly-proline region
Accession No.	Q15390
Uniprot	Q15390
GeneID	9650;
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:0.781-50 ng/mL

Sensitivity:0.28 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 MTFR1 in samples. An antibody specific for MTFR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMTFR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MTFR1 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 MTFR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**MTFR1 encodes a mitochondrial protein that is characterized by a poly-proline rich region. A chicken homolog of this protein promotes mitochondrial fission and the mouse homolog protects cells from oxidative stress. A related pseudogene of this gene is found on chromosome X.

Conventional fluorescence and confocal localization of CHPPR shows that CHPPR is sorted to mitochondria. Furthermore, immunoelectron microscopy of CHPPR transfected cells demonstrates that this protein is mostly associated with the mitochondrial inner membranes. Careful analysis of CHPPR expressing cells reveals, instead of the regular mitochondrial tubular network, the presence of a number of small spheroid mitochondria.

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Note: This product is for in vitro research use only