

## Human Lipase maturation factor 1 (LMF1) ELISA Kit

Catalog No: #EK10072



Package Size: #EK10072-1 48T #EK10072-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human Lipase maturation factor 1 (LMF1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Accession No.	Q96S06
Uniprot	Q96S06
GeneID	64788;
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:0.156-10 ng/mL

Sensitivity:0.055 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 LMF1 in samples. An antibody specific for LMF1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLMF1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LMF1 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 LMF1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Lmf1 RNA was expressed at higher levels in tissues that express little or no lipase activity such as testis and pancreas, suggesting that Lmf1 may have additional functions in these tissues. The Lmf1 protein was predicted to contain 5 transmembrane domains and an evolutionarily conserved domain comprising most of the C-terminal end. Colocalization with calnexin demonstrated that the Lmf1 protein is localized to the endoplasmic reticulum (ER).

The resulting LMF1 truncation, tyr439 to stop (Y439X), removed 127 residues from the C terminus compared with 212 residues eliminated by the cld mutation in the mouse. The Y439X subject showed markedly high plasma triglyceride and had undergone repeated episodes of pancreatitis.

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Note: This product is for in vitro research use only