Human Acylglycerol kinase, mitochondrial (AGK) ELISA Kit

Catalog No: #EK7785

Package Size: #EK7785-1 48T #EK7785-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Acylglycerol kinase, mitochondrial (AGK) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	FLJ10842; MULK; multi-substrate lipid kinase|multiple substrate lipid kinase
Accession No.	Q53H12
Uniprot	Q53H12
GeneID	55750;
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:0.156-10 ng/mL

Sensitivity:0.081 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 AGK in samples. An antibody specific for AGK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAGK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AGK 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 AGK bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MULK contains an N-terminal diacylglycerol (DG) kinase domain, a putative nuclear localization signal, and a region with 44% homology to SPHK2. Comparison of putative vertebrate MULK orthologs showed strong conservation of amino acid sequences, and phylogenetic analysis of lipid kinases demonstrated that human and mouse Mulk together form a distinct lipid kinase family.
Expression of a MULK-EGFP fusion protein in 293T cells and CHO cells showed that MULK fractionates with membranes and localizes to internal membrane compartments. RT-PCR analysis showed MULK is ubiquitously expressed, with highest expression in pancreas and brain.

Note: This product is for in vitro research use only