

Human Acylglycerol Kinase, Mitochondrial (AGK) ELISA Kit | AGK elisa kit

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CATALOG #
AAA331148

REACTIVITY
Human

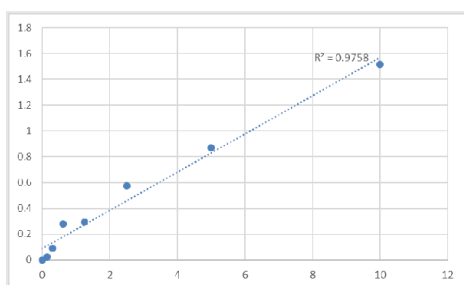
PRODUCT SYNONYMS

Acylglycerol Kinase; Mitochondrial (AGK); Human Acylglycerol Kinase; Mitochondrial (AGK) ELISA Kit; AGK; FLJ10842; MULK; multi-substrate lipid kinase; multiple substrate lipid kinase; AGK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Acylglycerol kinase, mitochondrial (AGK) ELISA Kit has high sensitivity and excellent specificity for detection of Human AGK. No significant cross-reactivity or interference between Human AGK and analogues was observed.
Sequence Length	422
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Acylglycerol kinase, mitochondrial (AGK) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for AGK elisa kit	Description: This Human Acylglycerol kinase, mitochondrial (AGK) ELISA Kit 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 any AGK 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8922701
NCBI GeneID	55750
NCBI Accession #	NP_060708.1
NCBI GenBank Nucleotide #	NP_060708.1
UniProt Accession #	Q53H12
NCBI Official Full Name	acylglycerol kinase, mitochondrial isoform 1
NCBI Official Synonym Full Names	acylglycerol kinase
NCBI Official Symbol	AGK
NCBI Official Synonym Symbols	MULK; CATC5; CTRCT38; MTDPS10
NCBI Protein Information	acylglycerol kinase, mitochondrial
UniProt Protein Name	Acylglycerol kinase, mitochondrial
UniProt Gene Name	AGK
UniProt Synonym Gene Names	MULK; hAGK; HsMuLK; MuLK
UniProt Entry Name	AGK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.