

Human Maternal Embryonic Leucine Zipper Kinase (MELK) ELISA Kit | MELK elisa kit

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CATALOG #
AAA331807

REACTIVITY
Human

PRODUCT SYNONYMS

Maternal Embryonic Leucine Zipper Kinase (MELK); Human Maternal Embryonic Leucine Zipper Kinase (MELK) ELISA Kit; MELK; RP11-8N6.1; HPK38; KIAA0175; pEg3 kinase; MELK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Maternal embryonic leucine zipper kinase (MELK) ELISA Kit has high sensitivity and excellent specificity for detection of Human MELK. No significant cross-reactivity or interference between Human MELK and analogues was observed.
Sequence Length	610
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 Maternal embryonic leucine zipper kinase (MELK) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MELK elisa kit	Description: This Human Maternal embryonic leucine zipper kinase (MELK) ELISA Kit employs a two-site sandwich ELISA to quantitate MELK in samples. An antibody specific for MELK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MELK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MELK 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 MELK bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MELK (Maternal Embryonic Leucine Zipper Kinase) is a Protein Coding gene. Among its related pathways are Neuroscience. GO annotations related to this gene include calcium ion binding and protein kinase activity. An important paralog of this gene is PRKAA1. Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity; phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of apoptosis by phosphorylating and activating MAP3K5/ASK1. Acts as a regulator of cell cycle, notably by mediating phosphorylation of CDC25B, promoting localization of CDC25B to the centrosome and the spindle poles during mitosis. Plays a key role in cell proliferation and carcinogenesis. Required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits BCL2L14, possibly leading to affect mammary carcinogenesis by mediating inhibition of the pro-apoptotic function of BCL2L14. Also involved in the inhibition of spliceosome assembly during mitosis by phosphorylating ZNF622, thereby contributing to its redirection to the nucleus. May also play a role in primitive hematopoiesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	375493532
NCBI GeneID	9833
NCBI Accession #	NP_001243614.1
NCBI GenBank Nucleotide #	NP_001243614.1
UniProt Accession #	Q14680
NCBI Official Full Name	maternal embryonic leucine zipper kinase isoform 2
NCBI Official Synonym Full Names	maternal embryonic leucine zipper kinase
NCBI Official Symbol	MELK
NCBI Official Synonym Symbols	HPK38
NCBI Protein Information	maternal embryonic leucine zipper kinase
UniProt Protein Name	Maternal embryonic leucine zipper kinase
UniProt Gene Name	MELK
UniProt Synonym Gene Names	KIAA0175; hMELK; pEg3 kinase; hPK38
UniProt Entry Name	MELK_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.