

Rabbit anti-Human MELK Polyclonal Antibody | anti-MELK antibody

MELK Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323977	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

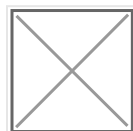
PRODUCT SYNONYMS

MELK; Polyclonal Antibody; MELK Antibody; AI327312; hMELK; HPK 38; hPK38; KIAA0175; Likely ortholog of maternal embryonic leucine zipper kinase; Maternal embryonic leucine zipper kinase; MELK_HUMAN; mKIAA0175; MPK38; OTTHUMP00000021377; OTTHUMP00000046113; pEg3 kinase; Protein kinase Eg3; Protein kinase PK38; RP23 382O11.1; Tyrosine protein kinase MELK; anti-MELK antibody

PRODUCT SPECIFICATIONS

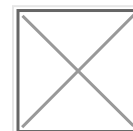
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	MELK antibody detects endogenous levels of total MELK
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	610
Applicable Applications for anti-MELK antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Plasma Membrane
Tissue Specificity	Expressed in placenta, kidney, thymus, testis, ovary and intestine.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA323977 staining K562 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from K562 cells, using MELK antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MELK antibody	Function: 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. Subunit Structure: Monomer. Interacts with ZNF622 and PPP1R8. Post-translational Modifications: Autophosphorylated: autophosphorylation of the T-loop at Thr-167 and Ser-171 is required for activation. Thr-478 phosphorylation during mitosis promotes interaction with PPP1R8 (Probable). Similarity: The KA1 domain mediates binding to phospholipids and targeting to membranes. Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	375493532
NCBI GeneID	9833
NCBI Accession #	NP_001243614.1
NCBI GenBank Nucleotide #	NM_001256685.1
UniProt Accession #	Q14680; A6P3A7; A6P3A8; B1AMQ6; B7Z1E6; B7Z5M5; B7Z6Q7; B7Z6R8; B7Z6Y0; B7Z7Q1; D3DRP8; F5H0Y0
Molecular Weight	Observed: 75 kD Predicted: 75 kDa
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

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/melk-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323977>