

Product Name: KD-Validated MELK Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01389**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 74.6kDa

Antigen Information

Gene Name	MELK MELK; Maternal Embryonic Leucine Zipper Kinase; KIAA0175; Tyrosine-Protein Kinase MELK;
Alternative Names	Protein Kinase PK38; Protein Kinase Eg3; PEg3 Kinase; EC 2.7.11.1; HPK38; EC 2.7.10.2; EC 2.7.11; HMEK
Gene ID	9833.0
SwissProt ID	Q14680
Immunogen	A synthesized peptide derived from human MELK

Background

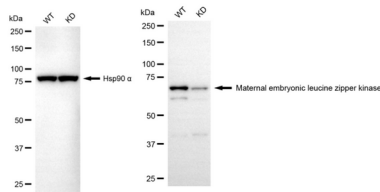
Enables calcium ion binding activity; non-membrane spanning protein tyrosine kinase activity; and protein serine/threonine kinase activity. Involved in apoptotic process; cell population proliferation; and protein autophosphorylation. Located in cell

cortex and plasma membrane. [provided by Alliance of Genome Resources, Jul 2025]

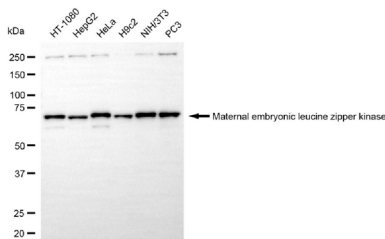
Research Area

Signal Transduction, Stem Cells, Cell Biology, Developmental Biology

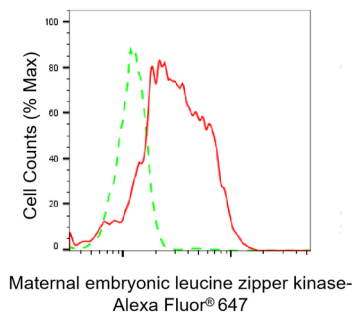
Image Data



Western blotting analysis using maternal embryonic leucine zipper kinase antibody (KVA01389). Maternal embryonic leucine zipper kinase expression in wild-type (WT) and maternal embryonic leucine zipper kinase (MELK) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with maternal embryonic leucine zipper kinase antibody (KVA01389, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using maternal embryonic leucine zipper kinase antibody (KVA01389). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with maternal embryonic leucine zipper kinase antibody (KVA01389, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Maternal embryonic leucine zipper kinase expression in HepG2 cells using Maternal embryonic leucine zipper kinase antibody (KVA01389, 1:2,000). Green, isotype control; red, Maternal embryonic leucine zipper kinase.