

MELK Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7149a

Specification

MELK Antibody (Center) - Product Information

Application WB,E Primary Accession Q14680 Human Reactivity Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit Ig Calculated MW 74642 Antigen Region 201-230

MELK Antibody (Center) - Additional Information

Gene ID 9833

Other Names

Maternal embryonic leucine zipper kinase, hMELK, Protein kinase Eg3, pEg3 kinase, Protein kinase PK38, hPK38, Tyrosine-protein kinase MELK, MELK, KIAA0175

Target/Specificity

This MELK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 201-230 amino acids from the Central region of human MELK.

Dilution

WB~~1:1000

Format

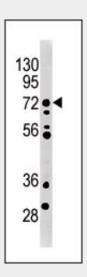
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MELK Antibody (Center) is for research use



The anti-MRLK Pab (Cat. #AP7149a) is used in Western blot to detect MRLK in mouse brain tissue lysate

MELK Antibody (Center) - Background

MELK contains 1 protein kinase domain that belongs to the Ser/Thr protein kinase family. It phosphorylates ZNF622 and may contribute to its redirection to the nucleus. MELK may also be involved in the inhibition of spliceosome assembly during mitosis.

MELK Antibody (Center) - References

Davezac, N., et al., Oncogene 21(50):7630-7641 (2002). Heyer, B.S., et al., Mol. Reprod. Dev. 47(2):148-156 (1997).



only and not for use in diagnostic or therapeutic procedures.

MELK Antibody (Center) - Protein Information

Name MELK

Synonyms KIAA0175

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.

Cellular Location

Cell membrane; Peripheral membrane protein

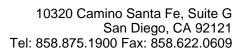
Tissue Location

Expressed in placenta, kidney, thymus, testis, ovary and intestine.

MELK Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence





ImmunoprecipitationFlow CytometyCell Culture