

Product datasheet for **TA339318**

Melk Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for Anti-Melk antibody is: synthetic peptide directed towards the N-terminal region of Mouse Melk. Synthetic peptide located within the following region: GFAKVKLACHVLTGEMVAIKIMDKNALGSDLPRVKTEIDALKSLRHQHC
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	70 kDa
Gene Name:	maternal embryonic leucine zipper kinase
Database Link:	NP_034920 Entrez Gene 17279 Mouse Q61846



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Background:

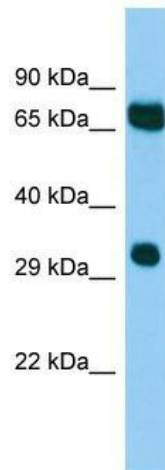
Melk is a Serine/threonine-protein kinase involved in various processes such as cell cycle regulation, self-renewal of stem cells, apoptosis and splicing regulation. Has a broad substrate specificity; phosphorylates BCL2L14, CDC25B, MAP3K5/ASK1 and ZNF622. Acts as an activator of apoptosis by phosphorylating and activating MAP3K5/ASK1. Melk 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. It Plays a key role in cell proliferation. It is required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits BCL2L14. It's also involved in the inhibition of spliceosome assembly during mitosis by phosphorylating ZNF622, thereby contributing to its redirection to the nucleus and may also play a role in primitive hematopoiesis.

Synonyms:

hMELK; HPK38; KIAA0175

Note:

Immunogen Sequence Homology: Human: 100%; Dog: 93%; Pig: 93%; Horse: 93%; Rat: 86%; Mouse: 86%; Bovine: 86%; Rabbit: 86%; Guinea pig: 86%

Product images:

Host: Rabbit; Target Name: Melk; Sample Tissue: Mouse Testis lysates; Antibody Dilution: 1.0 ug/ml