(Mouse) Melk Antibody (Center)

Catalog_no： AB3272

Reactivity： M

Category： 抗原抗体

Size： 100μL/50μL

Immunogen： HUMAN

Specificity： This Mouse Melk antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 381-415 amino acids from the Central region of Mouse Melk.

Dilution： WB,1:1000;

Other_name： Maternal embryonic leucine zipper kinase, Protein kinase PK38, mPK38, Tyrosine-protein kinase MELK, Melk, Kiaa0175, Pk38

Isotype： Rabbit Ig

Background： 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. Required for proliferation of embryonic and postnatal multipotent neural progenitors. Phosphorylates and inhibits 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.

reference： Gil M.,et al.Gene 195:295-301(1997). Heyer B.S.,et al.Mol. Reprod. Dev. 47:148-156(1997). Carninci P.,et al.Science 309:1559-1563(2005). Okazaki N.,et al.DNA Res. 10:167-180(2003). Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).