

Recombinant Mouse Pkmyt1 Protein, Myc/DDK-tagged

Cat. No. Pkmyt1-4889M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein kinase, membrane associated tyrosine/threonine 1 (Pkmyt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as a negative regulator of entry into mitosis (G2 to M transition) by phosphorylation of the CDK1 kinase specifically when CDK1 is complexed to cyclins. Mediates phosphorylation of CDK1 predominantly on 'Thr-14'. Also involved in Golgi fragmentation. May be involved in phosphorylation of CDK1 on 'Tyr-15' to a lesser degree, however tyrosine kinase activity is unclear and may be indirect. May be a downstream target of Notch signaling pathway during eye development.
Molecular Mass	54.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Pkmyt1 protein kinase, membrane associated tyrosine/threonine 1 [Mus musculus (house mouse)]

Official Symbol Pkmyt1

Synonyms PKMYT1; protein kinase, membrane associated tyrosine/threonine 1; membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase; MYT1 kinase; membrane-associated tyrosine-and threonine-specific cdc2-inhibitory kinase; Myt1; AW209059; 6230424P17

Gene ID 268930

mRNA Refseq NM_023058

Protein Refseq NP_075545

UniProt ID Q9ESG9

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