

Recombinant Mouse Cdk14 Protein, Myc/DDK-tagged

Cat. No. Cdk14-4814M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length PFTAIRE protein kinase 1 (cDNA clone MGC:95907 IMAGE:6834018), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine/threonine-protein kinase involved in the control of the eukaryotic cell cycle, whose activity is controlled by an associated cyclin. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by mediating the phosphorylation of LRP6 at 'Ser-1490', leading to the activation of the Wnt signaling pathway. Acts as a regulator of cell cycle progression and cell proliferation via its interaction with CCDN3. Phosphorylates RB1 in vitro, however the relevance of such result remains to be confirmed in vivo. May also play a role in meiosis, neuron differentiation and may indirectly act as a negative regulator of insulin-responsive glucose transport.
Molecular Mass	47.7 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.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Cdk14 cyclin-dependent kinase 14 [<i>Mus musculus</i> (house mouse)]
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Official Symbol	Cdk14
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Synonyms	Cdk14; cyclin-dependent kinase 14; Pftk; Pftk1; mKIAA0834; cyclin-dependent kinase 14; cell division protein kinase 14; serine/threonine-protein kinase PFTAIRES-1; EC 2.7.11.22
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Gene ID	18647
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mRNA Refseq	NM_011074
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Protein Refseq	NP_035204
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UniProt ID	O35495
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