

Recombinant Human CDK11, Unactive, GST-tagged

Cat. No. CDK11B-1534H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK11 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	CDK11 is a member of the cyclin-dependent kinase 11 family which is known to be essential for eukaryotic cell cycle control and it is in close proximity to CDC2L2, a nearly identical gene in the same chromosomal region. CDK11 is a negative regulator of normal cell cycle progression and its expression is regulated during murine embryogenesis, and its activity is coordinately regulated with that of p34 (cdc2) during the cell cycle. CDK11 gene may harbor 1 or more tumor suppressor genes that affected by chromosome 1p36 modifications in neuroblastoma. CDK11 could be cleaved by caspases and was demonstrated to play roles in cell apoptosis.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	92 kDa
Purity	>90%

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Applications	Kinase Assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	CDK19 cyclin-dependent kinase 19 [Homo sapiens]
Official Symbol	CDK19
Synonyms	CDK19; cyclin-dependent kinase 19; CDC2L6, CDK11, cell division cycle 2 like 6 (CDK8 like) , cyclin dependent kinase (CDC2 like) 11; bA346C16.3; KIAA1028; death-preventing kinase; cyclin-dependent kinase 11; CDC2-related protein kinase 6; cell division protein kinase 19; CDK8-like cyclin-dependent kinase; cyclin-dependent kinase (CDC2-like) 11; cell division cycle 2-like 6 (CDK8-like); cell division cycle 2-like protein kinase 6; CDK11; CDC2L6;
Gene ID	23097
mRNA Refseq	NM_015076
Protein Refseq	NP_055891
UniProt ID	Q9BWU1
Chromosome Location	6q21

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Pathway

Developmental Biology, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPARA Activates Gene Expression, organism-specific biosystem; Regulation of Lipid Metabolism by Peroxisome proliferator-activated receptor alpha (PPARalpha), organism-specific biosystem; Transcriptional Regulation of White Adipocyte Differentiation, organism-specific biosystem;

Function

ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein serine/threonine kinase activity; transferase activity, transferring phosphorus-containing groups;

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