

Recombinant Human CDK4 Protein, GST-Tagged

Cat. No. CDK4-1011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CDK4 full-length ORF (AAH03644, 211 a.a. - 303 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq, Jul 2008]
Molecular Mass	35.97 kDa
AA Sequence	KPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVSLPRGAFPPRGPRPVQSVVPEMEE SGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEGNPE
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)

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Antibody Production
Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name CDK4 cyclin-dependent kinase 4 [Homo sapiens]

Official Symbol CDK4

Synonyms CDK4; cyclin-dependent kinase 4; PSK J3; cell division protein kinase 4; CMM3; PSK-J3; MGC14458;

Gene ID 1019

mRNA Refseq NM_000075

Protein Refseq NP_000066

MIM 123829

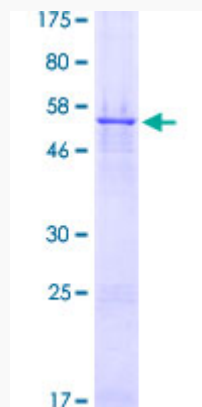
UniProt ID P11802

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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