

Recombinant Human CDKN1B 293 Cell Lysate

Cat. No. CDKN1B-7617HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cyclin-dependent kinase inhibitor 1B (p27, Kip1) (CDKN1B) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1) [Homo sapiens]
Official Symbol	CDKN1B
Synonyms	CDKN1B; cyclin-dependent kinase inhibitor 1B (p27, Kip1); cyclin-dependent kinase inhibitor 1B; KIP1; P27KIP1; MEN4; CDKN4; MEN1B;
Gene ID	1027
mRNA Refseq	NM_004064
Protein Refseq	NP_004055
MIM	600778
UniProt ID	P46527
Chromosome Location	12p13.1-p12
Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;

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Function

cyclin-dependent protein kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase inhibitor activity; contributes_to cysteine-type endopeptidase activator activity involved in apoptotic process; kinase activity; protein binding; protein kinase inhibitor activity; protein phosphatase binding; transforming growth factor beta receptor, cytoplasmic mediator activity;

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