

Recombinant Human CDKN2A 293 Cell Lysate

Cat. No. CDKN2A-7616HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4) (CDKN2A), transcript variant 1 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 [CDKN2A cyclin-dependent kinase inhibitor 2A \[Homo sapiens \]](#)

Official Symbol CDKN2A

Synonyms CDKN2A; cyclin-dependent kinase inhibitor 2A; CDKN2, cyclin dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4) , MLM; ARF; CDK4I; CMM2; INK4; INK4a; MTS1; p14; p16; p16INK4a; p19; p19Arf; CDK4 inhibitor p16-INK4; multiple tumor suppressor 1; cell cycle negative regulator beta; cyclin-dependent kinase 4 inhibitor A; cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4); MLM; P14; P16; P19; TP16; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A;

Gene ID [1029](#)

mRNA Refseq [NM_000077](#)

Protein Refseq [NP_000068](#)

MIM [600160](#)

UniProt ID [P42771](#)

Chromosome Location 9p21

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Pathway	Apoptosis, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	DNA binding; MDM2 binding; NF-kappaB binding; cyclin-dependent protein kinase inhibitor activity; p53 binding; protein binding; protein kinase binding; transcription factor binding; ubiquitin-protein ligase inhibitor activity;

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