Human CCND1 Knockdown Cell Lysate

Cat. No. CCND1-092HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated CCND1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance throughout the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with tumor suppressor protein Rb and the expression of this gene is regulated positively by Rb. Mutations, amplification and overexpression of this gene, which alters cell cycle progression, are observed frequently in a variety of human cancers.
Form	Cell-Tissue Lysis buffer
Molecular Mass	34 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.

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Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CCND1 KD HeLa cell lysate
Protein Families	Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways	Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Focal adhesion, Glioma, Jak-STAT signaling pathway, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Viral myocarditis, Wnt signaling pathway
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	CCND1 cyclin D1 [Homo sapiens (human)]
Official Symbol	CCND1
Synonyms	CCND1; cyclin D1; BCL1; PRAD1; U21B31; D11S287E; G1/S-specific cyclin-D1; B-cell CLL/lymphoma 1; B-cell lymphoma 1 protein; BCL-1 oncogene; PRAD1 oncogene
Gene ID	595

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mRNA Refseq	NM_053056
Protein Refseq	NP_444284
MIM	168461
UniProt ID	P24385

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