

Recombinant Human CDK2AP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDK2AP1-5275H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDK2AP1 MS Standard C13 and N15-labeled recombinant protein (NP_004633) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a cyclin-dependent kinase 2 (CDK2) -associated protein which is thought to negatively regulate CDK2 activity by sequestering monomeric CDK2, and targeting CDK2 for proteolysis. This protein was found to also interact with DNA polymerase alpha/primase and mediate the phosphorylation of the large p180 subunit, which suggests a regulatory role in DNA replication during the S-phase of the cell cycle. This protein also forms a core subunit of the nucleosome remodeling and histone deacetylation (NURD) complex that epigenetically regulates embryonic stem cell differentiation. This gene thus plays a role in both cell-cycle and epigenetic regulation. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	12.4 kDa
AA Sequence	MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLLSDYGPPSLGYTQGTGN SQVPQSKYAELLAIEELGKEIRPTYAGSKSAMERLKRGIHARGLVRECLAETERNAR STRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CDK2AP1 cyclin-dependent kinase 2 associated protein 1 [Homo sapiens (human)]
Official Symbol	CDK2AP1
Synonyms	CDK2AP1; cyclin-dependent kinase 2 associated protein 1; CDK2 associated protein 1; cyclin-dependent kinase 2-associated protein 1; doc 1; DOC1; DORC1; p12DOC 1; ST19; Deleted in oral cancer-1; deleted in oral cancer 1; CDK2-associated protein 1; putative oral cancer suppressor; doc-1; p12DOC-1;
Gene ID	8099
mRNA Refseq	NM_004642
Protein Refseq	NP_004633
MIM	602198
UniProt ID	O14519

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SDS-PAGE

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