

## Product datasheet for **TP304442**

### CDK2AP1 (NM\_004642) Human Recombinant Protein

#### Product data:

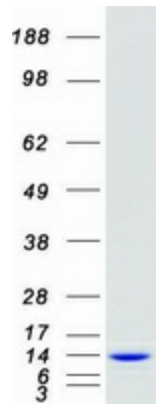
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin-dependent kinase 2 associated protein 1 (CDK2AP1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204442 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLLSYDYGPPSLGYTQGTGNSQVPQSKYAELLAI EELGKEIRPTYAGSKSAMERLKRGIHARGLVRECLAETERNARS
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	12.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_004633</a></u>
Locus ID:	8099
UniProt ID:	<u><a href="#">O14519</a></u>
RefSeq Size:	1655



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<b>Cytogenetics:</b>	12q24.31
<b>RefSeq ORF:</b>	345
<b>Synonyms:</b>	doc-1; DOC1; DORC1; p12DOC-1; ST19
<b>Summary:</b>	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. [provided by RefSeq, Jul 2012]

### Product images:



Coomassie blue staining of purified CDK2AP1 protein (Cat# TP304442). The protein was produced from HEK293T cells transfected with CDK2AP1 cDNA clone (Cat# [RC204442]) using MegaTran 2.0 (Cat# [TT210002]).