

Product datasheet for **AR09379PU-L**

CDK2AP1 / DOC1 (1-115, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CDK2AP1 / DOC1 (1-115, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MRGSHHHHHH</u> GMASMTGGQQ MGRDLYDDDD KDRWGSMSY KPNLAAHMPA AALNAAGSVH SPSTSMATSS QYRQLLSDYG PPSLGYTQGT GNSQVPQSKY AELLAIEEL GKEIRPTYAG SKSAMERLKR GIIHARGLVR ECLAETERNA RS
Tag:	His-tag
Predicted MW:	16.6 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 2 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant CDK2AP1 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001257362</u>
Locus ID:	8099
UniProt ID:	<u>O14519</u>
Cytogenetics:	12q24.31
Synonyms:	doc-1; DOC1; DORC1; p12DOC-1; ST19



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Summary:

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: