## PRODUCT INFORMATION

## Expression system

E.coli

## Domain

1-115aa
UniProt No.
O14519
NCBI Accession No.
NP_004633

## Alternative Names

Cyclin-dependent kinase 2 associated protein 1, CDKAP1, DOC1, CDKA1, Cyclin-dependent kinase 2 associated protein 1 CDK2 A1, CDK2 associated protein 1, CDK2AP1, Cyclin dependent kinase 2 associated protein 1 Deleted in oral cancer 1, DOC 1, DOC 1 related protein, DOC 1R, DOC1R, Putative oral cancer suppressor.

## PRODUCT SPECIFICATION

## Molecular Weight

16.6 kDa (152aa) confirmed by MALDI-TOF

## Concentration

$0.25 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50\% glycerol, 2mM DTT

## Purity

> 95\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

CDK2AP1 is a specific CDK2-associated protein, which is thought to negatively regulate CDK2 activity by sequestering monomeric CDK2, and targeting CDK2 for proteolysis. Also, interact with DNA polymerase alpha/primase and mediate the phosphorylation of the large p180 subunit, which suggested the regulatory role in DNA replication during $S$ phase of the cell cycle. A similar gene in hamster was isolated from, and functions as
a growth suppressor of normal keratinocytes. Recombinant CDK2AP1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMSY KPNLAAHMPA AALNAAGSVH SPSTSMATSS QYRQLLSDYG PPSLGYTQGT GNSQVPQSKY AELLAIIEEL GKEIRPTYAG SKSAMERLKR GIIHARGLVR ECLAETERNA RS

## General References

Tsuji T., et al. (1998) J Biol Chem. 273(12):6704-9.
Hu MG., et al. (2004) Cancer Res. 64(2):490-9.

DATA

## SDS-PAGE

(kDa)


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

