

Recombinant human RPRD1B protein

Catalog Number: ATGP3048

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-326aa

UniProt No.

Q9NQG5

NCBI Accession No.

NP_067038.1

Alternative Names

Regulation of nuclear pre-mRNA domain-containing protein 1B, Regulation of nuclear pre-mRNA domain-containing protein 1B, C20orf77, CREPT, dj1057B20.2, NET60

PRODUCT SPECIFICATION

Molecular Weight

39.3 kDa (349aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

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

BACKGROUND

Description

RPRD1B also known as regulation of nuclear pre-mRNA domain-containing protein 1B. This protein interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD. It promotes binding of RNA polymerase II to the CCDN1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. It prevents RNA polymerase II from reading through the 3' end termination site and may allow it to be recruited

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back to the promoter through promotion of the formation of a chromatin loop. It also enhances the transcription of a number of other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. It promotes cell proliferation. Recombinant human RPRD1B, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

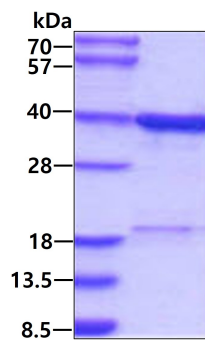
<MGSSHHHHHH SSGLVPRGSH MGS>MSSFSES ALEKKLSELS NSQQSVQTLS LWLIHHRKHA GPIVSVWHRE
LRKAKSNRKL TFLYLANDVI QNSKRKGPEF TREFESVLVD AFSHVAREAD EGCKKPLERL LNIWQERSVY GGEFIQQLKL
SMEDSKSPPP KATEEKKSLK RTFQQIQEEE DDDYPGSYSP QDPSAGPLLT EELIKALQDL ENAASGDATV RQKIASLPQE
VQDVSLLEKI TDKEAAERLS KTVDEACLLL AEYNGRLAAE LEDRRQLARM LVEYTQNQKD VLSEKEKKLE EYKQKLARVT
QVRKELKSHI QSLPDLSELLP NVTGGLAPLP SAGDLFSTD

General References

Lu D., et al. (2012) Cancer Cell 21:92-104

DATA

SDS-PAGE



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