

**AR51868PU-S****Human RPRD1B (1-326, His-tag) - Purified****Alternate names:**

C20orf77, CREPT, Cell cycle-related and expression-elevated protein in tumor, Regulation of nuclear pre-mRNA domain-containing protein 1B, chromosome 20 open reading frame 77

**Quantity:**

0.1 mg

**Concentration:**

1.0 mg/ml (determined by Bradford assay)

**Background:**

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 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.

**Uniprot ID:**

[Q9NOG5](#)

**NCBI:**

[NP\\_067038](#)

**GeneID:**

[58490](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >90% by SDS - PAGE

**Buffer System:** Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT.

**Description:**

Recombinant human RPRD1B, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SGLVPRGSH MGSMSFSSES ALEKKLSELS NSQQSVQTLS LWLIHHRKHA  
GPIVSVWHRE LRKAKSNRKL TFLYLANDVI QNSKRKGPEF TREFESVLVD AFSHVAREAD  
EGCKKPLERL LNIWQERSVY GGEFIQQLKL SMEDSKSPPP KATEEKSLK RTFQQIQEEE  
DDDYPGSYSP QDPSAGPLLT EELIKALQDL ENAASGDATV RQKIASLPQE VQDVSLEKI  
TDKEAAERLS KTVDEACLLL AEYNGRLAAE LEDRRQLARM LVEYTONQKD VLSEKEKKLE  
EYKQKLARVT QVRKELKSHI QSLPDL SLLP NVTGGLAPLP SAGDLFSTD

**Molecular weight:** 39.3 kDa (349aa) confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

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

Pictures:

