Datasheet for ABIN3095124

# RPRD1B Protein (AA 2-326) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | RPRD1B |
| Protein Characteristics: | AA 2-326 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This RPRD1B protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

## Product Details

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| Sequence: | SSFSESALEK KLSELSNSQQ SVQTLSLWLI HHRKHAGPIV SVWHRELRKA KSNRKLTFLY LANDVIQNSK RKGPEFTREF ESVLVDAFSH VAREADEGCK KPLERLLNIW QERSVYGGEF IQQLKLSMED SKSPPPKATE EKKSLKRTFQ QIQEEEDDDY PGSYSPQDPS AGPLLTEELI KALQDLENAA SGDATVRQKI ASLPQEVQDV SLLEKITDKE AAERLSKTVD EACLLLAEYN GRLAAELEDR RQLARMLVEY TQNQKDVLSE KEKKLEEYKQ KLARVTQVRK ELKSHIQSLP DLSLLPNVTG GLAPLPSAGD LFSTD<br>**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.** |
| Characteristics: | • Made in Germany - from design to production - by highly experienced protein experts.<br>• Human RPRD1B Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis). |

## Product Details

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| | This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.<br>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.<br>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).<br>When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.<br>The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.<br>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: | Two step purification of proteins expressed in bacterial culture:<br>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.<br>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Endotoxin has not been removed. Please contact us if you require endotoxin removal. |
| Grade: | Crystallography grade |

## Target Details

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| Target: | RPRD1B |
| Alternative Name: | RPRD1B (RPRD1B Products) |
| Background: | Interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA |

 

## Target Details

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| | polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD. Transcriptional regulator which enhances expression of CCND1. 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. 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. 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. Promotes cell proliferation. {ECO:0000269\|PubMed:22231121, ECO:0000269\|PubMed:22264791}. |
| Molecular Weight: | 37.7 kDa Including tag. |
| UniProt: | Q9NQG5 |

## Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though. |
| Comment: | In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |

 