antibodies.com

Datasheet for ABIN3135008 DDB1 Protein (AA 2-1140) (His tag)

I Image



Overview

Quantity:	1 mg
Target:	DDB1
Protein Characteristics:	AA 2-1140
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDB1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SYNYVVTAQK PTAVNGCVTG HFTSAEDLNL LIAKNTRLEI YVVTAEGLRP VKEVGMYGKI
	AVMELFRPKG ESKDLLFILT AKYNACILEY KQSGESIDII TRAHGNVQDR IGRPSETGII GIIDPECRMI
	GLRLYDGLFK VIPLDRDNKE LKAFNIRLEE LHVIDVKFLY GCQAPTICFV YQDPQGRHVK
	TYEVSLREKE FNKGPWKQEN VEAEASMVIA VPEPFGGAII IGQESITYHN GDKYLAIAPP
	IIKQSTIVCH NRVDPNGSRY LLGDMEGRLF MLLLEKEEQM DGTVTLKDLR VELLGETSIA
	ECLTYLDNGV VFVGSRLGDS QLVKLNVDSN EQGSYVVAME TFTNLGPIVD MCVVDLERQG
	QGQLVTCSGA FKEGSLRIIR NGIGIHEHAS IDLPGIKGLW PLRSDPGRET DDTLVLSFVG
	QTRVLMLNGE EVEETELMGF VDDQQTFFCG NVAHQQLIQI TSASVRLVSQ EPKALVSEWK
	EPQGKNISVA SCNSSQVVVA VGRALYYLQI HPQELRQISH TEMEHEVACL DITPLGDSNG
	LSPLCAIGLW TDISARILKL PSFELLHKEM LGGEIIPRSI LMTTFESSHY LLCALGDGAL
	FYFGLNIETG LLSDRKKVTL GTQPTVLRTF RSLSTTNVFA CSDRPTVIYS SNHKLVFSNV
	NLKEVNYMCP LNSDGYPDSL ALANNSTLTI GTIDEIQKLH IRTVPLYESP RKICYQEVSQ

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3135008 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	CFGVLSSRIE VQDSSGGTTA LRPSASTQAL SSSVSSSKLF SSSTAPHETS FGEEVEVHNL
	LIIDQHTFEV LHAHQFLQNE YALSLVSCKL GKDPNTYFIV GTAMVYPEEA EPKQGRIVVF
	QYSDGKLQTV AEKEVKGAVY SMVEFNGKLL ASINSTVRLY EWTTEKELRT ECNHYNNIMA
	LYLKTKGDFI LVGDLMRSVL LLAYKPMEGN FEEIARDFNP NWMSAVEILD DDNFLGAENA
	FNLFVCQKDS AATTDEERQH LQEVGLFHLG EFVNVFCHGS LVMQNLGEAS TPTQGSVLFG
	TVNGMIGLVT SLSESWYNLL LDMQNRLNKV IKSVGKIEHS FWRSFHTERK TEPATGFIDG
	DLIESFLDIS RPKMQEVVAN LQYDDGSGMK REATADDLIK VVEELTRIH
	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. Mouse Ddb1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	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.
	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.
	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).
	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.
	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.
	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 baculovirus infected SF9 insect cells:
	 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.
	2. Protein containing fractions of the best purification are subjected to second purification step

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3135008 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	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:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	DDB1
Alternative Name:	Ddb1 (DDB1 Products)
Background:	Required for DNA repair. Binds to DDB2 to form the UV-damaged DNA-binding protein complex
	(the UV-DDB complex). The UV-DDB complex may recognize UV-induced DNA damage and
	recruit proteins of the nucleotide excision repair pathway (the NER pathway) to initiate DNA
	repair. The UV-DDB complex preferentially binds to cyclobutane pyrimidine dimers (CPD), 6-4
	photoproducts (6-4 PP), apurinic sites and short mismatches. Also appears to function as a
	component of numerous distinct DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase
	complexes which mediate the ubiquitination and subsequent proteasomal degradation of
	target proteins. The functional specificity of the DCX E3 ubiquitin-protein ligase complex is
	determined by the variable substrate recognition component recruited by DDB1. DCX(DDB2)
	(also known as DDB1-CUL4-ROC1, CUL4-DDB-ROC1 and CUL4-DDB-RBX1) may ubiquitinate
	histone H2A, histone H3 and histone H4 at sites of UV-induced DNA damage. The ubiquitination
	of histones may facilitate their removal from the nucleosome and promote subsequent DNA
	repair. DCX(DDB2) also ubiquitinates XPC, which may enhance DNA-binding by XPC and
	promote NER. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and
	MDM2-dependent ubiquitination of TP53 in response to radiation-induced DNA damage and
	during DNA replication. DCX(ERCC8) (the CSA complex) plays a role in transcription-coupled
	repair (TCR). May also play a role in ubiquitination of CDKN1B/p27kip when associated with
	CUL4 and SKP2 (By similarity). {ECO:0000250, ECO:0000269 PubMed:12107171}.
Molecular Weight:	127.7 kDa Including tag.
UniProt:	Q3U1J4
Pathways:	DNA Damage Repair

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3135008 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
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:	Protein has not been tested for activity yet. 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	

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)

Images

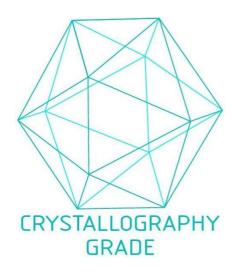


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3135008 | 09/11/2023 | Copyright antibodies-online. All rights reserved.