antibodies

Datasheet for ABIN3134557 POLR3B Protein (AA 1-1133) (His tag)





Overview

Quantity:	1 mg
Target:	POLR3B
Protein Characteristics:	AA 1-1133
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MDVLAEEFGS LTPEQLTAPI PTVEEKWRLL PAFLKVKGLV KQHIDSFNYF INVEIKKIMK
	ANEKVTSDAD PMWYLKYLNI YVGLPDVEES FNVTRPVSPH ECRLRDMTYS APITVDIEYT
	RGSQRIIRNA LPIGRMPIML RSSNCVLTGK TPAEFAKLNE CPLDPGGYFI VKGVEKVILI
	QEQLSKNRII VEADRKGAVG ASVTSSTHEK KSRTNMAVKQ GRFYLRHNTL SEDIPIVIIF
	KAMGVESDQE IVQMIGTEEH VMAAFGPSLE ECQKAQIFTQ MQALKYIGNK VRRQRMWGGG
	PKKTKIEEAR ELLASTILTH VPVKEFNFRA KCIYTAVMVR RVILAQGDNK VDDRDYYGNK
	RLELAGQLLS LLFEDLFKKF NSEMKKIADQ VIPKQRAAQF DVVKHMRQDQ ITNGMVNAIS
	TGNWSLKRFK MDRQGVTQVL SRLSYISALG MMTRISSQFE KTRKVSGPRS LQPSQWGMLC
	PSDTPEGEAC GLVKNLALMT HITTDMEDGP IIKLAGNLGV EDVNLLCGEE LSYPNVFLVF
	LNGNILGVIR DHKKLVSTFR LMRRAGYINE FVSISTNLTD RCVYISSDGG RLCRPYIIVK
	KQKPAVTNKH MEELAQGYRN FEDFLHESLV EYLDVNEEND CNIALYEHTI NKDTTHLEIE
	PFTLLGVCAG LIPYPHHNQS PRNTYQCAMG KQAMGTIGYN QRNRIDTLMY LLAYPQKPMV

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	KTKTIELIDF EKLPAGQNAT VAVMSYSGYD IEDALVLNKA SLDRGFGRCL VYKNAKCTLK
	RYTNQTFDKV MGPMLDAATR KPIWRHEILD ADGICSPGEK VENKQVLVNK SMPTVTQIPL
	EGSNVPQQPQ YKDVPITYKG ATDSYIEKVM ISSNAEDAFL IKMLLRQTRR PEIGDKFSSR
	HGQKGVCGLI VPQEDMPFCD SGICPDIIMN PHGFPSRMTV GKLIELLAGK AGVLDGRFHY
	GTAFGGSKVK DVCEDLVRHG YNYLGKDYVT SGITGEPLEA YIYFGPVYYQ KLKHMVLDKM
	HARARGPRAV LTRQPTEGRS RDGGLRLGEM ERDCLIGYGA SMLLLERLMI SSDAFEVDVC
	GQCGLLGYSG WCHYCKSSCH VSSLRIPYAC KLLFQELQSM NIIPRLKLAK YNE
	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 Polr3b 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. Destain containing fractions of the best purification are subjected to ensure functions at an analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step

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Product Details

	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:	POLR3B
Alternative Name:	Polr3b (POLR3B Products)
Background:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four
	ribonucleoside triphosphates as substrates. Second largest core component of RNA
	polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Proposed to
	contribute to the polymerase catalytic activity and forms the polymerase active center togethe
	with the largest subunit. Pol III is composed of mobile elements and RPC2 is part of the core
	element with the central large cleft and probably a clamp element that moves to open and
	close the cleft. Plays a key role in sensing and limiting infection by intracellular bacteria and
	DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response.
	Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self
	RNA polymerase III transcripts induce type I interferon and NF- Kappa-B through the RIG-I
	pathway (By similarity). {ECO:0000250}.
Molecular Weight:	128.7 kDa Including tag.
UniProt:	P59470
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.

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Application Details

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