antibodies

Datasheet for ABIN3135722 POLR3G Protein (AA 1-223) (His tag)





Overview

Quantity:	1 mg
Target:	POLR3G
Protein Characteristics:	AA 1-223
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POLR3G protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	MAGNKGRGRA AYTFNIEAVG FSRGEKLPDV VLKPPPLFPD TDYKPVPLKT GEDEDYMLAL
	KQELRETVKR LPYFIEPPEE KQDDIERYSK RYMKVYKEEW VPDWRRLPRE MMPRKKCKKG
	DPKSKPSKAA AKATSLINSA DVLKTIEELE KRGEGERSDE ENEEKEGSKE KDKDDEEDGE
	EDAEQEDYDE EEQEEENDYI NSYFDNGDDF GVDSDDNMDE ATY

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Characteristics:

• Made in Germany - from design to production - by highly experienced protein experts.

- Mouse Polr3g Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

special request, please contact us.

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.

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	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 bacterial culture:
	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. 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	
Target:	POLR3G
Alternative Name:	Polr3g (POLR3G Products)

Background:	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four
	ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase
	III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members

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	of the RPC3/POLR3C-RPC6/POLR3F-RPC7/POLR3G subcomplex RNA Pol III binding to the
	TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. May be involved either in
	the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating
	catalytic functions of other subunits during initiation. 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:	26.9 kDa Including tag.
UniProt:	Q6NXY9
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)

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

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