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Datasheet for ABIN3092613 FOXP3 Protein (AA 1-417) (His tag)

3 Images



Overview

Quantity:	1 mg
Target:	FOXP3
Protein Characteristics:	AA 1-417
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXP3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MPNPRPGKPS APSLALGPSP GASPSWRAAP KASDLLGARG PGGTFQGRDL RGGAHASSSS
	LNPMPPSQLQ LPTLPLVMVA PSGARLGPLP HLQALLQDRP HFMHQLSTVD AHARTPVLQV
	HPLESPAMIS LTPPTTATGV FSLKARPGLP PGINVASLEW VSREPALLCT FPNPSAPRKD
	STLSAVPQSS YPLLANGVCK WPGCEKVFEE PEDFLKHCQA DHLLDEKGRA QCLLQREMVQ
	SLEQQLVLEK EKLSAMQAHL AGKMALTKAS SVASSDKGSC CIVAAGSQGP VVPAWSGPRE
	APDSLFAVRR HLWGSHGNST FPEFLHNMDY FKFHNMRPPF TYATLIRWAI LEAPEKQRTL
	NEIYHWFTRM FAFFRNHPAT WKNAIRHNLS LHKCFVRVES EKGAVWTVDE LEFRKKRGSS
	GHHHHH
Specificity:	C-terminal His-tag
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	• Human FOXP3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.

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	State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This made-to-order protein has already been successfully produced. Please let us know if you
	are interested in purchasing a smaller amount of this protein. We will check our stock and make
	you a customized quote in case we can provide this protein in a smaller amount
	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:
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Purification:	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
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Purification:	 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. 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
	 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. 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:	 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. 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. >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Target Details

Target:	FOXP3
Alternative Name:	FOXP3 (FOXP3 Products)
Background:	Transcriptional regulator which is crucial for the development and inhibitory function of
	regulatory T-cells (Treg). Plays an essential role in maintaining homeostasis of the immune
	system by allowing the acquisition of full suppressive function and stability of the Treg lineage,
	and by directly modulating the expansion and function of conventional T-cells. Can act either as
	a transcriptional repressor or a transcriptional activator depending on its interactions with other
	transcription factors, histone acetylases and deacetylases. The suppressive activity of Treg

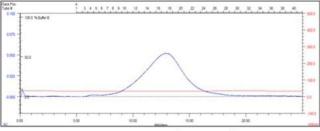
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	involves the coordinate activation of many genes, including CTLA4 and TNFRSF18 by FOXP3
	along with repression of genes encoding cytokines such as interleukin-2 (IL2) and interferon-
	gamma (IFNG). Inhibits cytokine production and T-cell effector function by repressing the
	activity of two key transcription factors, RELA and NFATC2 (PubMed:15790681). Mediates
	transcriptional repression of IL2 via its association with histone acetylase KAT5 and histone
	deacetylase HDAC7 (PubMed:17360565). Can activate the expression of TNFRSF18, IL2RA and
	CTLA4 and repress the expression of IL2 and IFNG via its association with transcription factor
	RUNX1 (PubMed:17377532). Inhibits the differentiation of IL17 producing helper T-cells (Th17)
	by antagonizing RORC function, leading to down-regulation of IL17 expression, favoring Treg
	development (PubMed:18368049). Inhibits the transcriptional activator activity of RORA
	(PubMed:18354202). Can repress the expression of IL2 and IFNG via its association with
	transcription factor IKZF4 (By similarity). {ECO:0000250 UniProtKB:Q99JB6,
	EC0:0000269 PubMed:15790681, EC0:0000269 PubMed:17360565,
	EC0:0000269 PubMed:17377532, EC0:0000269 PubMed:18354202,
	ECO:0000269 PubMed:18368049, ECO:0000269 PubMed:23169781}.
Molecular Weight:	46.7 kDa Including tag.
UniProt:	Q9BZS1
Pathways:	Chromatin Binding, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T
	Cell Proliferation
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:	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
i viillat.	

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Handling	
Buffer:	20 mM Hepes, pH 7.2; 300 mM NaCl
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Forkhead Box P3 (FOXP3) Q9BZS1 1-417, gel filtration, Superdex 200 fractions 17-19

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.

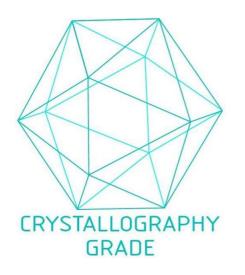
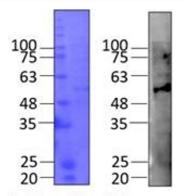


Image 2. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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Forkhead Box P3 (FOXP3)|Q9BZS1|1-417 Fractions 17-19

Western Blotting

Image 3.

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