antibodies

Datasheet for ABIN3133067 TCF3 Protein (AA 1-651) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TCF3
Protein Characteristics:	AA 1-651
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCF3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MMNQSQRMAP VGSDKELSDL LDFSMMFPLP VANGKSRPAS LGGTQFAGSG LEDRPSSGSW
	GSSDQNSSSF DPSRTYSEGA HFSDSHSSLP PSTFLGAGLG GKGSERNAYA TFGRDTSVGT
	LSQAGFLPGE LSLSSPGPLS PSGIKSSSQY YPSFPSNPRR RAADGGLDTQ PKKVRKVPPG
	LPSSVYPPSS GDSYSRDAAA YPSAKTPSSA YPSPFYVADG SLHPSAELWS TPSQVGFGPM
	LGDGSSPLPL APGSSSVGSG TFGGLQQQDR MGYQLHGSEV NGSLPAVSSF SAAPGTYSGT
	SGHTPPVSGA AAESLLGTRG TTASSSGDAL GKALASIYSP DHSSNNFSPS PSTPVGSPQG
	LPGTSQWPRA GAPSALSPNY DAGLHGLSKM EDRLDEAIHV LRSHAVGTAS DLHGLLPGHG
	ALTTSFTGPM SLGGRHAGLV GGSHPEEGLT SGASLLHNHA SLPSQPSSLP DLSQRPPDSY
	SGLGRAGTTA GASEIKREEK EDEEIASVAD AEEDKKDLKV PRTRTSPDED EDDLLPPEQK
	AEREKERRVA NNARERLRVR DINEAFKELG RMCQLHLSSE KPQTKLLILH QAVAVILSLE
	QQVRERNLNP KAACLKRREE EKVSGVVGDP QLALSAAHPG LGEAHNPAGH L
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification. These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). 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.
	Expression System:
	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post- translational modifications.
	 During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	Concentration:
	 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.
	• We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

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 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:	\geq 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	TCF3
Alternative Name:	Tcf3 (TCF3 Products)
Background:	Transcription factor E2-alpha (Immunoglobulin enhancer-binding factor E12/E47)
	(Transcription factor 3) (TCF-3) (Transcription factor A1),FUNCTION: Transcriptional regulator
	involved in the initiation of neuronal differentiation and mesenchymal to epithelial transition
	(PubMed:15226298, PubMed:18214987). Heterodimers between TCF3 and tissue-specific
	basic helix-loop-helix (bHLH) proteins play major roles in determining tissue-specific cell fate
	during embryogenesis, like muscle or early B-cell differentiation (PubMed:18214987). Togethe
	with TCF15, required for the mesenchymal to epithelial transition (PubMed:11309385,
	PubMed:15226298). Dimers bind DNA on E-box motifs: 5'-CANNTG-3' (PubMed:15226298,
	PubMed:18214987, PubMed:30426815). Binds to the kappa-E2 site in the kappa
	immunoglobulin gene enhancer (By similarity). Binds to IEB1 and IEB2, which are short DNA
	sequences in the insulin gene transcription control region (PubMed:2181401).
	{EC0:0000250 UniProtKB:P15923, EC0:0000269 PubMed:11309385,
	ECO:0000269 PubMed:15226298, ECO:0000269 PubMed:18214987,
	ECO:0000269 PubMed:2181401}., FUNCTION: [Isoform E47]: Facilitates ATOH7 binding to DN
	at the consensus sequence 5'-CAGGTG-3', and positively regulates transcriptional activity.
	{EC0:0000250 UniProtKB:P15923}.
Molecular Weight:	67.7 kDa
UniProt:	P15806
Pathways:	WNT Signaling, Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Production of
	Molecular Mediator of Immune Response

Application Details

Application Notes:	n addition to the applications listed above we expect the protein to work for functional studies
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Application Details	
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational modifications.
	During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)