antibodies

Datasheet for ABIN3125259 TOX4 Protein (AA 1-619) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TOX4
Protein Characteristics:	AA 1-619
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TOX4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	DVFLAWVASR NPNSVVFVK
	DVVPEVESPS QMDVELVSGS PVALSPQPRC VRSGCENPPV VSKDWDNEYC SNECVVKHCR
	NLQQQPPPLQ SKIVPPPTLK IQTTVVPPTV ESSPEQPMNS SPEAHTVEAT SPETICEMIA
	RSVLQAAAAA AASMQLPPPR LQPPPLQQMP QPPTQQQVTI LQQPPPLQAM QQPPPQKVRI
	GQPNITKLII TKQMLPSSIT MSQGGMVTVI PATVVTSRGL QVGQTSTATI QPSQQAQIVT
	ETVELDPVPQ SQTPSPPPVT AADPASPAPA STESPALPPC IIVNSTLSSY VANQASSGPG
	IKGQNPNATF GEVSKIVASM WDSLGEEQKQ VYKRKTEAAK KEYLKALAAY KDNQECQATV
	NSLHEDGVDD FRRQLPAQKT VVVETGKKQK APKKRKKKDP NEPQKPVSAY ALFFRDTQAA
	PVTIDVPMTD MTSGLMGHSQ LTTIDQSELS SQLGLSLGGG TILPPAQSPE DRLSTTPSPT
	DLADPSSSQD GSFSAQYGVQ TLDMPVGMTH GLMEQGGGLL SGGLTMDLDH SIGTQYSANP
Sequence:	MEFPGGNDNY LTITGPSHPF LSGAETFHTP SLGDEEFEIP PISLDSDPSL AVSDVVGHFD

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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:	TOX4
Alternative Name:	Tox4 (TOX4 Products)
Background:	TOX high mobility group box family member 4 (Epidermal Langerhans cell protein
	LCP1),FUNCTION: Transcription factor that modulates cell fate reprogramming from the
	somatic state to the pluripotent and neuronal fate (PubMed:31519808). Component of the
	PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and
	cell cycle progression during the transition from mitosis into interphase (By similarity). In liver,
	controls the expression of hormone-regulated gluconeogenic genes such as G6PC1 and PCK1
	This regulation is independent of the insulin receptor activation (PubMed:34914893).
	{ECO:0000250 UniProtKB:094842, ECO:0000269 PubMed:31519808,
	ECO:0000269 PubMed:34914893}.
Molecular Weight:	66.0 kDa
UniProt:	Q8BU11
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
	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

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Application Details	
	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)