antibodies

# Datasheet for ABIN3121426 SOX12 Protein (AA 1-314) (Strep Tag)



Overview

Quantity:	1 mg
Target:	SOX12
Protein Characteristics:	AA 1-314
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SOX12 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MVQQRGARAK RDGGPPPPGP GPAAEGAREP GWCKTPSGHI KRPMNAFMVW SQHERRKIMD
	QWPDMHNAEI SKRLGRRWQL LQDSEKIPFV REAERLRLKH MADYPDYKYR PRKKSKGAPA
	KARPRPPGGG GGGSRLKPGP QLPGRGGRRA SGGPLGGGAA APEDDDEDEE EELLEVRLLE
	TPGRELWRMV PAGRAARGPA ERAQGPSGEG AAASAASPTL SEDEEPEEEE EEAATAEEGE
	EETVVSGEEP LGFLSRMPPG PAGLDCSALD RDPDLLPPSG TSHFEFPDYC TPEVTEMIAG
	DWRSSSIADL VFTY
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	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

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- 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®):
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li> <li>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.</li> </ol>
Purity:	$\geq$ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Product Details

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

Target:	SOX12
Alternative Name:	Sox12 (SOX12 Products)
Background:	Transcription factor SOX-12,FUNCTION: Transcription factor that binds to DNA at the
	consensus sequence 5'-ACCAAAG-3' (PubMed:18505825, PubMed:18403418,
	PubMed:30190287). Acts as a transcriptional activator (PubMed:18505825, PubMed:18403418
	PubMed:30190287). Binds cooperatively with POU3F2/BRN2 or POU3F1/OCT6 to gene
	promoters, which enhances transcriptional activation (PubMed:18505825, PubMed:18403418).
	Involved in the differentiation of naive CD4-positive T-cells into peripherally induced regulatory T
	(pT reg) cells under inflammatory conditions (PubMed:30190287). Binds to the promoter region
	of the FOXP3 gene and promotes its transcription, and might thereby contribute to pT reg cell
	differentiation in the spleen and lymph nodes during inflammation (PubMed:30190287). Plays a
	redundant role with SOX4 and SOX11 in cell survival of developing tissues such as the neural
	tube, branchial arches and somites, thereby contributing to organogenesis
	(PubMed:20596238). {ECO:0000269 PubMed:18403418, ECO:0000269 PubMed:18505825,
	ECO:0000269 PubMed:20596238, ECO:0000269 PubMed:30190287}.
Molecular Weight:	34.1 kDa
UniProt:	Q04890
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
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	
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Comment:	<ul> <li>guarantee though.</li> <li>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.</li> <li>During lysate production, the cell wall and other cellular components that are not required for</li> </ul>

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Application Details	
	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)