antibodies

Datasheet for ABIN3132306 ITM2B Protein (AA 1-266) (Strep Tag)



Overview

Overview	
Quantity:	1 mg
Target:	ITM2B
Protein Characteristics:	AA 1-266
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITM2B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)
Product Details	
Sequence:	MVKVTFNSAL AQKEAKKDEP KSSEEALIVP PDAVAVDCKD PGDVVPVGQR RAWCWCMCFG
	LAFMLAGVIL GGAYLYKYFA LQPDDVYYCG LKYIKDDVIL NEPSADAPAA RYQTIEENIK
	IFEEDAVEFI SVPVPEFADS DPANIVHDFN KKLTAYLDLN LDKCYVIPLN TSIVMPPKNL
	LELLINIKAG TYLPQSYLIH EHMVITDRIE NVDNLGFFIY RLCHDKETYK LQRRETIRGI
	QKREASNCFT IRHFENKFAV ETLICS
	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®):
	 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. 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:	≥ 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)

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Target:	ITM2B
Alternative Name:	Itm2b (ITM2B Products)
Background:	Integral membrane protein 2B (Immature BRI2) (imBRI2) (Protein E25B) (Transmembrane
	protein BRI) (Bri) [Cleaved into: BRI2, membrane form (Mature BRI2) (mBRI2), BRI2 intracellular
	domain (BRI2 ICD), BRI2C, soluble form, Bri23 peptide (Bri2-23) (ABri23) (C-terminal peptide)
	(P23 peptide)],FUNCTION: Plays a regulatory role in the processing of the amyloid-beta A4
	precursor protein (APP) and acts as an inhibitor of the amyloid-beta peptide aggregation and
	fibrils deposition. Plays a role in the induction of neurite outgrowth. Functions as a protease
	inhibitor by blocking access of secretases to APP cleavage sites (By similarity). {ECO:0000250}
	FUNCTION: Mature BRI2 (mBRI2) functions as a modulator of the amyloid-beta A4 precursor
	protein (APP) processing leading to a strong reduction in the secretion of secretase-processed
	amyloid-beta protein 40 and amyloid-beta protein 42. {ECO:0000250}., FUNCTION: Bri23
	peptide prevents aggregation of APP amyloid-beta protein 42 into toxic oligomers.
	{ECO:0000250}.
Molecular Weight:	30.3 kDa
UniProt:	089051
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

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	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

guarantee though.

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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)