antibodies

Datasheet for ABIN3116049 MAVS Protein (AA 1-540) (Strep Tag)



Overview

Quantity:	1 mg
Target:	MAVS
Protein Characteristics:	AA 1-540
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAVS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	GNPGPPADPD GGPRPQADRK FQEREVPCHR PSPGALWLQV AVTGVLVVTL LVVLYRRRLH
	PGVLASQVDS PFSGCFEDLA ISASTSLGMG PCHGPEENEY KSEGTFGIHV AENPSIQLLE
	SKVPTSMVLT KVSASTVPTD GSSRNEETPA APTPAGATGG SSAWLDSSSE NRGLGSELSK
	TLMPVNTVAL KVPANPASVS TVPSKLPTSS KPPGAVPSNA LTNPAPSKLP INSTRAGMVP
	PGPTGSVVST GTSFSSSSPG LASAGAAEGK QGAESDQAEP IICSSGAEAP ANSLPSKVPT
	SSDLAALSPL TSSGHQEQDT ELGSTHTAGA TSSLTPSRGP VSPSVSFQPL ARSTPRASRL
	TPAAAHSIPY NSCREKEPSY PMPVQETQAP ESPGENSEQA LQTLSPRAIP RNPDGGPLES
	TLQRRPGWVE YFIAALRGCE LVDLADEVAS VYQSYQPRTS DRPPDPLEPP SLPAERPGPP
Sequence:	MPFAEDKTYK YICRNFSNFC NVDVVEILPY LPCLTARDQD RLRATCTLSG NRDTLWHLFN

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Product Details

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 posttranslational 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 capture material. Eluate fractions are analyzed by SDS-PAGE.
- 2. 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

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	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)
Target Details	
Target:	MAVS
Alternative Name:	MAVS (MAVS Products)
Background:	Mitochondrial antiviral-signaling protein (MAVS) (CARD adapter inducing interferon beta) (Cardif) (Interferon beta promoter stimulator protein 1) (IPS-1) (Putative NF-kappa-B-activating protein 031N) (Virus-induced-signaling adapter) (VISA),FUNCTION: Adapter required for innate immune defense against viruses (PubMed:16125763, PubMed:16127453, PubMed:16153868, PubMed:16177806, PubMed:19631370, PubMed:20451243, PubMed:33139700, PubMed:20127681, PubMed:21170385, PubMed:27992402, PubMed:33139700, PubMed:37582970). Acts downstream of DHX33, RIGI and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFNB and RANTES (CCL5) (PubMed:16125763, PubMed:16127453, PubMed:16153868, PubMed:16177806, PubMed:20127681, PubMed:21170385, PubMed:20628368, PubMed:25636800, PubMed:20127681, PubMed:21170385, PubMed:20628368, PubMed:33110251, PubMed:27736772). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state (PubMed:20451243). Upon viral infection, peroxisomal MAVS induces the rapid interferon-independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon-dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response (PubMed:20451243). May activate the same pathways following detection of extracellular dsRNA by TLR3 (PubMed:16153868). May protect cells from apoptosis (PubMed:16125763). Involved in NLRP3 inflammasome activation by mediating NLRP3 recruitment to mitochondria (PubMed:23582325). {EC0:0000269 PubMed:161277681, EC0:0000269 PubMed:16153868, EC0:0000269 PubMed:2027681, EC0:0000269 PubMed:21170385, EC0:0000269 PubMed:2087404, EC0:0000269 PubMed:21170385, EC0:0000269 PubMed:2087404, EC0:0000269 PubMed:21170385, EC0:0000269 PubMed:2087404, EC0:0000269 PubMed:21170385, EC0:0000269 PubMed:2087

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Target Details	
	ECO:0000269 PubMed:27736772, ECO:0000269 PubMed:27992402, ECO:0000269 PubMed:33110251, ECO:0000269 PubMed:33139700, ECO:0000269 PubMed:37582970}.
Molecular Weight:	56.5 kDa
UniProt:	Q7Z434
Pathways:	Activation of Innate immune Response, Inositol Metabolic Process, Hepatitis C
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 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)

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