

## Datasheet for ABIN3136701 MAVS Protein (AA 1-503) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MAVS
Protein Characteristics:	AA 1-503
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAVS protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	MTFAEDKTYK YIRDNHSKFC CVDVLEILPY LSCLTASDQD RLRASYRQIG NRDTLWGLFN
	NLQRRPGWVE VFIRALQICE LPGLADQVTR VYQSYLPPGT SLRSLEPLQL PDFPAAVSGP
	SAFAPGHNIP DHGLRETPSC PKPVQDTQPP ESPVENSEQL LQTNSGAVAR MSGGSLIPSP
	NQQALSPQPS REHQEQEPEL GGAHAANVAS VPIATYGPVS PTVSFQPLPR TALRTNLLSG
	VTVSALSADT SLSSSSTGSA FAKGAGDQAK AATCFSTTLT NSVTTSSVPS PRLVPVKTMS
	SKLPLSSKST AAMTSTVLTN TAPSKLPSNS VYAGTVPSRV PASVAKAPAN TIPPERNSKQ
	AKETPEGPAT KVTTGGNQTG PNSSIRSLHS GPEMSKPGVL VSQLDEPFSA CSVDLAISPS
	SSLVSEPNHG PEENEYSSFR IQVDESPSAD LLGSPEPLAT QQPQEEEEHC ASSMPWAKWL
	GATSALLAVF LAVMLYRSRR LAQ
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> and will be made for the first time for your order. Our
	experts in the lab try to ensure that you receive soluble protein.
	The big advantage of ordering our <b>made-to-order proteins</b> 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:
	<ul> <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 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!</li> </ul>
	<ul> <li>Concentration:</li> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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## 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) (Virus-induced-signaling adapter) (VISA),FUNCTION: Adapter required for innate immune defense against viruses (PubMed:24037184). 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 IFN-beta and RANTES (CCL5) (PubMed:24037184). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state (By similarity). 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 (By similarity). May activate the same pathways following detection of extracellular dsRNA by TLR3 (By similarity). May protect cells from apoptosis (By similarity). Involved in NLRP3 inflammasome activation by mediating NLRP3 recruitment to mitochondria (PubMed:23582325). {ECO:0000250 UniProtKB:Q7Z434, ECO:0000269 PubMed:23582325, ECO:0000269 PubMed:24037184}.
Molecular Weight:	53.4 kDa
UniProt:	Q8VCF0
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:	<ul> <li>ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from</li> <li>Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce</li> <li>even the most difficult-to-express proteins, including those that require post-translational</li> <li>modifications.</li> <li>During lysate production, the cell wall and other cellular components that are not required for</li> <li>protein production are removed, leaving only the protein production machinery and the</li> <li>mitochondria to drive the reaction. During our lysate completion steps, the additional</li> </ul>

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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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months