Datasheet for ABIN7554470

MAVS Protein (AA 1-540) (His tag)

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Overview

Quantity:	1 mg
Target:	MAVS
Protein Characteristics:	AA 1-540
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAVS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MAVS Protein expressed in mammalien cells.
Sequence:	MPFAEDKTYK YICRNFSNFC NVDVVEILPY LPCLTARDQD RLRATCTLSG NRDTLWHLFN TLQRRPGWVE YFIAALRGCE LVDLADEVAS VYQSYQPRTS DRPPDPLEPP SLPAERPGPP TPAAAHSIPY NSCREKEPSY PMPVQETQAP ESPGENSEQA LQTLSPRAIP RNPDGGPLES SSDLAALSPL TSSGHQEQDT ELGSTHTAGA TSSLTPSRGP VSPSVSFQPL ARSTPRASRL PGPTGSVVST GTSFSSSSPG LASAGAAEGK QGAESDQAEP IICSSGAEAP ANSLPSKVPT TLMPVNTVAL KVPANPASVS TVPSKLPTSS KPPGAVPSNA LTNPAPSKLP INSTRAGMVP SKVPTSMVLT KVSASTVPTD GSSRNEETPA APTPAGATGG SSAWLDSSSE NRGLGSELSK PGVLASQVDS PFSGCFEDLA ISASTSLGMG PCHGPEENEY KSEGTFGIHV AENPSIQLLE GNPGPPADPD GGPRPQADRK FQEREVPCHR PSPGALWLQV AVTGVLVVTL LVVLYRRRLH **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary.**

Product Details

	In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

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:23087404, 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:19631370, PubMed:20451243, PubMed:23087404, PubMed:25636800, PubMed:20127681, PubMed:21170385, PubMed:20628368,

Target Details

	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). {ECO:0000269|PubMed:16125763, ECO:0000269|PubMed:16127453, ECO:0000269|PubMed:16153868, ECO:0000269|PubMed:16177806, ECO:0000269|PubMed:19631370, ECO:0000269|PubMed:20127681, ECO:0000269|PubMed:20451243, ECO:0000269|PubMed:20628368, ECO:0000269|PubMed:21170385, ECO:0000269|PubMed:23087404, ECO:0000269|PubMed:23582325, ECO:0000269|PubMed:25636800, 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months