Datasheet for ABIN7552084

ALPK1 Protein (AA 1-1244) (His tag)

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Overview

Quantity:	1 mg
Target:	ALPK1
Protein Characteristics:	AA 1-1244
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALPK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ALPK1 Protein expressed in mammalien cells.
Sequence:	MNNQKVVAVL LQECKQVLDQ LLLEAPDVSE EDKSEDQRCR ALLPSELRTL IQEAKEMKWP FVPEKWQYKQ AVGPEDKTNL KDVIGAGLQQ LLASLRASIL ARDCAAAAAI VFLVDRFLYG LDVSGKLLQV AKGLHKLQPA TPIAPQVVIR QARISVNSGK LLKAEYILSS LISNNGATGT WLYRNESDKV LVQSVCIQIR GQILQKLGMW YEAAELIWAS IVGYLALPQP DKKGLSTSLG ILADIFVSMS KNDYEKFKNN PQINLSLLKE FDHHLLSAAE ACKLAAAFSA YTPLFVLTAV NIRGTCLLSY SSSNDCPPEL KNLHLCEAKE AFEIGLLTKR DDEPVTGKQE LHSFVKAAFG LTTVHRRLHG ETGTVHAASQ LCKEAMGKLY NFSTSSRSQD REALSQEVMS VIAQVKEHLQ VQSFSNVDDR SYVPESFECR LDKLILHGQG DFQKILDTYS QHHTSVCEVF ESDCGNNKNE QKDAKTGVCI TALKTEIKNI DTVSTTQEKP HCQRDTGISS SLMGKNVQRE LRRGGRRNWT HSDAFRVSLD QDVETETEPS DYSNGEGAVF NKSLSGSQTS SAWSNLSGFS SSASWEEVNY HVDDRSARKE PGKEHLVDTQ CSTALSEELE NDREGRAMHS LHSQLHDLSL QEPNNDNLEP

Product Details

	SQNQPQQQMP LTPFSPHNTP GIFLAPGAGL LEGAPEGIQE VRNMGPRNTS AHSRPSYRSA SWSSDSGRPK NMGTHPSVQK EEAFEIIVEF PETNCDVKDR QGKEQGEEIS ERGAGPTFKA SPSWVDPEGE TAESTEDAPL DFHRVLHNSL GNISMLPCSS FTPNWPVQNP DSRKSGGPVA EQGIDPDAST VDEEGQLLDS MDVPCTNGHG SHRLCILRQP PGQRAETPNS SVSGNILFPV LSEDCTTTEE GNQPGNMLNC SQNSSSSSVW WLKSPAFSSG SSEGDSPWSY LNSSGSSWVS LPGKMRKEIL EARTLQPDDF EKLLAGVRHD WLFQRLENTG VFKPSQLHRA HSALLLKYSK KSELWTAQET IVYLGDYLTV KKKGRQRNAF WVHHLHQEEI LGRYVGKDYK EQKGLWHHFT DVERQMTAQH YVTEFNKRLY EQNIPTQIFY IPSTILLILE DKTIKGCISV EPYILGEFVK LSNNTKVVKT EYKATEYGLA YGHFSYEFSN HRDVVVDLQG WVTGNGKGLI YLTDPQIHSV DQKVFTTNFG KRGIFYFFNN QHVECNEICH RLSLTRPSME KPCT **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. 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:	ALPK1
Alternative Name:	ALPK1 (ALPK1 Products)

Target Details

Background:	Alpha-protein kinase 1 (EC 2.7.11.1) (Chromosome 4 kinase) (Lymphocyte alpha-protein kinase),FUNCTION: Serine/threonine-protein kinase that detects bacterial pathogen-associated molecular pattern metabolites (PAMPs) and initiates an innate immune response, a critical step for pathogen elimination and engagement of adaptive immunity (PubMed:28877472, PubMed:28222186, PubMed:30111836). Specifically recognizes and binds ADP-D-glycero-beta-D-manno-heptose (ADP-Heptose), a potent PAMP present in all Gram-negative and some Gram-positive bacteria (PubMed:30111836). ADP-Heptose-binding stimulates its kinase activity to phosphorylate and activate TIFA, triggering pro-inflammatory NF-kappa-B signaling (PubMed:30111836). May be involved in monosodium urate monohydrate (MSU)-induced inflammation by mediating phosphorylation of unconventional myosin MYO9A (PubMed:27169898). May also play a role in apical protein transport by mediating phosphorylation of unconventional myosin MYO1A (PubMed:15883161). May play a role in ciliogenesis (PubMed:30967659). {ECO:0000269|PubMed:15883161, ECO:0000269|PubMed:27169898, ECO:0000269|PubMed:28222186, ECO:0000269|PubMed:28877472, ECO:0000269|PubMed:30111836, ECO:0000269|PubMed:30967659}.
Molecular Weight:	138.9 kDa
UniProt:	Q96QP1

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