

Datasheet for ABIN7551753
AAK1 Protein (AA 1-961) (His tag)



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Overview

Quantity:	1 mg
Target:	AAK1
Protein Characteristics:	AA 1-961
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AAK1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AAK1 Protein expressed in mammalian cells.
Sequence:	<p>MKKFFDSRRE QGGSGLGSGS SGGGGSTSLG GSGYIGRVFG IGRQQVTVDE VLAEGGFAIV FLVRTSNGMK CALKRMFVNN EHDQLQVCKRE IQIMRDLSGH KNIVGYIDSS INNVSSGDVW EVLILMDFCR GGQVVNLNMN RLQTGFTENE VLQIFCDTCE AVARLHQCKT PIIHRDLKVE NILLHDRGHY VLCDFGSATN KFQNPQTEGV NAVEDEIKKY TTLSYRAPEM VNLYSGKIIT TKADIWALGC LLYKLCYFTL PFGESQVAIC DGNFTIPDNS RYSQDMHCLI RYMLEPDPDK RPDIYQVSFY SFKLLKKECP IPNVQNSPI AKLPEPVKAS EAAAKKTQPK ARLTDPIPTT ETSIAPRQRP KAGQTQPNPG ILPIQPALTP RKRATVQPPP QAAGSSNQPG LLASVPQPKP QAPPSQPLPQ TQAKQPQAPP TPQQTPTQA QGLPAQAQAT PQHQQLFLK QQQQQQPPPP AQQQPAGTFY QQQQAQTQQF QAVHPATQKP AIAQFPVVSQ GGSQQQLMQN FYQQQQQQQQ QQQQQQLATA LHQQQLMTQQ AALQQKPTMA AGQQPQPQA AAPQPAPAQE PAIQAPVRQQ PKVQTTPPPA VQGQKVGSLT PPSSPKTQRA GHRRILSDVT HSAVFGVPAS KSTQLLQAAA</p>

AEASLNKSKS ATTTPSGSPR TSQQNVYNPS EGSTWNPFD DNFSLTAEE LLNKDFAKLG
EGKHPEKLGG SAESLIPGFQ STQGDAFATT SFSAGTAEKR KGGQTVDSGL PLLSVSDPFI
PLQVPDAPEK LIEGLKSPDT SLLLPDLLPM TDPFGSTSDA VIEKADVAVE SLIPGLEPPV
PQRLPSQTES VTSNRTDSLT GEDSLDCSL LSNPTTDLLE EFAPTAISAP VHKAEDSNL
ISGFDVPEGS DKVAEDEFDP IPVLTKNPQ GGHSRNSSGS SESSLPNLAR SLLLV DQLID L

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 mammalian 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:

AAK1

Alternative Name:

AAK1 ([AAK1 Products](#))

Background:

AP2-associated protein kinase 1 (EC 2.7.11.1) (Adaptor-associated kinase 1),FUNCTION: Regulates clathrin-mediated endocytosis by phosphorylating the AP2M1/mu2 subunit of the adaptor protein complex 2 (AP-2) which ensures high affinity binding of AP-2 to cargo membrane proteins during the initial stages of endocytosis (PubMed:17494869, PubMed:11877457, PubMed:11877461, PubMed:12952931, PubMed:14617351,

Target Details

PubMed:25653444). Isoform 1 and isoform 2 display similar levels of kinase activity towards AP2M1 (PubMed:17494869). Preferentially, may phosphorylate substrates on threonine residues (PubMed:11877457, PubMed:18657069). Regulates phosphorylation of other AP-2 subunits as well as AP-2 localization and AP-2-mediated internalization of ligand complexes (PubMed:12952931). Phosphorylates NUMB and regulates its cellular localization, promoting NUMB localization to endosomes (PubMed:18657069). Binds to and stabilizes the activated form of NOTCH1, increases its localization in endosomes and regulates its transcriptional activity (PubMed:21464124). {ECO:0000269|PubMed:11877457, ECO:0000269|PubMed:11877461, ECO:0000269|PubMed:12952931, ECO:0000269|PubMed:14617351, ECO:0000269|PubMed:17494869, ECO:0000269|PubMed:18657069, ECO:0000269|PubMed:21464124, ECO:0000269|PubMed:25653444}., FUNCTION: (Microbial infection) By regulating clathrin-mediated endocytosis, AAK1 plays a role in the entry of hepatitis C virus as well as for the lifecycle of other viruses such as Ebola and Dengue. {ECO:0000269|PubMed:25653444, ECO:0000305|PubMed:31136173}.

Molecular Weight:	103.9 kDa
UniProt:	Q2M2I8

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