

Datasheet for ABIN7563720

## AAK1 Protein (AA 1-959) (His tag)



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### Overview

Quantity:	1 mg
Target:	AAK1
Protein Characteristics:	AA 1-959
Origin:	Mouse
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 QGSSGLGSGS SGGGGSSSGL GSGYIGRVFG IGRQQVTVD E VLAEGGFALV</p> <p>FLVRTSNGVK CALKRMFVNN EHD LQVCKRE IQIMRDL SGH KNIVGYIDSS INNVSSGDVW</p> <p>EVLILMDFCR GGQVVNL MNQ RLQTGFTENE VLQIFCDTCE AVARLHQCKT PIIHRDLKVE</p> <p>NILLHDRGHY VLCDFGSATN KFQNPQAEGV NAVEDEIKKY TTLSYRAPEM VNLYSGKIIT</p> <p>TKADIWALGC LLYKLCYFTL PFGESQVAIC DGSFTIPDNS RYSQDMHCLI RYMLEPDPDK</p> <p>RPDIYQVS YF SFKLLKKECP V PNVQNSPIP AKLPEPVKAS EAAVKKTQPK ARLTDPIPTT</p> <p>ETSIAPRQRP KAGQTQPNPG ILPIQPALTP RKRATVQPLP QAAGPSNQPG LLPSVSQPKA</p> <p>QATPSQPLQS SQPKQPQAPP TPQQTPATQT QGLPTQAQAT PQHQQQHLLK QQQQQQQQPQ</p> <p>QPTAPPQAG TFYQQQQQQQ QQQAQTTQFQ AVHPAAQQPV TAQFPVGSQG GAQQQLMQNF</p> <p>YHQQQQQQQQ QQQLMAQQA LQKTA VVVP QSQAQPATAP QAAAAQEPGQ IQAPVRQQPK</p> <p>VQTTPTPTIQ GQKVGSLTPP SSPKTQRAGH RRILSDVTHS AVFGVPASKS TQLLQAAAAE</p>

ASLNKSKSAT TTPSGSPRTS QQNVSNASEG STWNPFDN FSKLTAEELL NKDFAKLGEK  
KLPEKLGGSA ESLIPGFQPT QGDAFTTPSF SAGTAEKRKG GQAVDSGIPL LSVSDPFIPL  
QVPDAPEKLI EGLKSPDTSLLPDLLPMTD PFGSTSDAVI DKADVAVESL IPGLEPPVAQ  
RLPSQTESVT SNRTDSLGE DSLDCSLLS NPTAGLLEEF APIALSAPTH KAAEDSNLIS  
GFGVAEGSEK VAEDEFDPIP VLITKNTQGG HSRNSSGSSE SSLPNLARSL LLVDQLIDL **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	AAK1
Alternative Name:	Aak1 ( <a href="#">AAK1 Products</a> )
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. Preferentially, may phosphorylate substrates on threonine residues. Regulates phosphorylation of other AP-2 subunits as well as

## Target Details

	AP-2 localization and AP-2-mediated internalization of ligand complexes. Phosphorylates NUMB and regulates its cellular localization, promoting NUMB localization to endosomes. Binds to and stabilizes the activated form of NOTCH1, increases its localization in endosomes and regulates its transcriptional activity. {ECO:0000250 UniProtKB:Q2M2I8}.
Molecular Weight:	103.3 kDa
UniProt:	<a href="#">Q3UHQ0</a>

## 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