

Datasheet for ABIN7554126

HOOK3 Protein (AA 1-718) (His tag)



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Overview

Quantity:	1 mg
Target:	HOOK3
Protein Characteristics:	AA 1-718
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOOK3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat HOOK3 Protein expressed in mammalian cells.
Sequence:	<p>MFSVESLERA ELCESELLTWI QTFNVDAPCQ TVEDLTNGVV MAQVLQKIDP AYFDENWLNLR</p> <p>IKTEVGDNWR LKISNLKKIL KGILDYNHEI LGQQINDFTL PDVNLIGEHS DAAELGRMLQ</p> <p>LILGCAVNCE QKQEYIQAIM MMEESVQHVV MTAIQELMSK ESPVSAGNDA YVDLDRQLKK</p> <p>TTEELNEALS AKKEIAQRCH ELDMQVAALQ EEKSSLLAEN QVLMERLNQS DSIEDPNSPA</p> <p>GRRHLQLQTQ LEQLQEETFR LEAAKDDYRI RCEELEKEIS ELRQQNDELT TLADEAQLSK</p> <p>DEIDVLRHSS DKVSKLEGQV ESYKKKLEDL GDLRRQVKLL EEKNTMYMQN TVSLEEELRK</p> <p>ANAARSQLET YKRQVVELQN RLSEESKKAD KLDFFEYKRLK EKVDLSLQKEK DRLRTERDSL</p> <p>KETIEELRCV QAQEGQLTTQ GLMPLGSQES SDSLAAEIVT PEIREKLIRL QHENKMLKLN</p> <p>QEGSDNEKIA LLQSLDDAN LRKNELETEN RLVNQRLLEV QSQVEELQKS LQDQGSKAED</p> <p>SVLLKKKLEE HLEKLHEANN ELQKKRAIIE DLEPRFNNSS LKIEELQEAL RKKEEEMKQM</p> <p>EERYKKYLEK AKSVIRTLDP KQNQGAPEI QALKNQLQER DRLFHSLEKE YEKTKSQREM</p>

EEKYIVSAWY NMGMTLHKKA AEDRLASTGS GQSFLARQRQ ATSSRRSYPG HVQPATAR

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:

HOOK3

Alternative Name:

HOOK3 ([HOOK3 Products](#))

Background:

Protein Hook homolog 3 (h-hook3) (hHK3),FUNCTION: Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track). Predominantly recruits 2 dyneins, which increases both the force and speed of the microtubule motor (PubMed:25035494, PubMed:33734450). Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). May regulate clearance of endocytosed receptors such as MSR1.

Target Details

Participates in defining the architecture and localization of the Golgi complex. FHF complex promotes the distribution of AP-4 complex to the perinuclear area of the cell (PubMed:32073997). {ECO:0000250|UniProtKB:Q8BUK6, ECO:0000269|PubMed:11238449, ECO:0000269|PubMed:17237231, ECO:0000269|PubMed:18799622, ECO:0000269|PubMed:25035494, ECO:0000269|PubMed:32073997, ECO:0000269|PubMed:33734450}., FUNCTION: (Microbial infection) May serve as a target for the spiC protein from Salmonella typhimurium, which inactivates it, leading to a strong alteration in cellular trafficking. {ECO:0000305}.

Molecular Weight:	83.1 kDa
UniProt:	Q86VS8
Pathways:	Stem Cell Maintenance , Maintenance of Protein Location

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