

Datasheet for ABIN7553931

Fukutin Protein (FKTN) (AA 1-461) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Fukutin (FKTN)
Protein Characteristics:	AA 1-461
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Fukutin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat FKTN Protein expressed in mammalian cells.
Sequence:	<p>MSRINKNVVL ALLTLTSSAF LLFQLYYYKH YLSTKNGAGL SKSKGSRIGF DSTQWRAVKK FIMLTSNQNV PVFLIDPLIL ELINKNFEQV KNTSHGSTSQ CKFFCVPRDF TAFALQYHLW KNEEGWFRIA ENMGFQCLKI ESKDPRLDGI DSLSGTEIPL HYICKLATHA IHLVVFHERS GNYLWHGHLR LKEHIDRK FV PFRKLQFGRY PGAFDRPELQ QVTVDGLEVL IPKDPMHFVE EVPHSRFIEC RYKEARAFFQ QYLLDNTVEA VAFRKS AKEL LQLAAKTLNK LGVPFWLSSG TCLGWYRQCN IIPYSKDVDL GIFIQDYKSD IILAFQDAGL PLKHKFGKVE DSLELSFQ GK DDVKLDVFFF YEETHMWNNG GTQAKTGKKF KYLFPKFTLC WTEFVDMKVH VPCETLEYIE ANYGKTWKIP VKTWDWKRSP PNVQPNGIWP ISEWDEVIQL Y 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.</p>

Product Details

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:

Fukutin (FKTN)

Alternative Name:

FKTN ([FKTN Products](#))

Background:

Ribitol-5-phosphate transferase FKTN (EC 2.7.8.-) (Fukutin) (Fukuyama-type congenital muscular dystrophy protein) (Ribitol-5-phosphate transferase),FUNCTION: Catalyzes the transfer of a ribitol-phosphate from CDP-ribitol to the distal N-acetylgalactosamine of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1) (PubMed:26923585, PubMed:29477842, PubMed:27194101). This constitutes the first step in the formation of the ribitol 5-phosphate tandem repeat which links the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta-1 (PubMed:17034757, PubMed:25279699, PubMed:26923585, PubMed:29477842, PubMed:27194101). Required for normal location of POMGNT1 in Golgi membranes, and for normal POMGNT1 activity (PubMed:17034757). May interact with and reinforce a large complex encompassing the outside and inside of muscle membranes (PubMed:25279699). Could be involved in brain development (Probable).

Target Details

{ECO:0000269|PubMed:17034757, ECO:0000269|PubMed:25279699,
ECO:0000269|PubMed:26923585, ECO:0000269|PubMed:27194101,
ECO:0000269|PubMed:29477842, ECO:0000305|PubMed:11115853}.

Molecular Weight: 53.7 kDa

UniProt: [O75072](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#)

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