

Datasheet for ABIN7564122
PIK3C3 Protein (AA 1-887) (His tag)



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Overview

Quantity:	1 mg
Target:	PIK3C3
Protein Characteristics:	AA 1-887
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIK3C3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Pik3c3 Protein expressed in mammalien cells.
Sequence:	MGEAEKFIHYI YSCDLINQV LKIGSLEGKR EQKSYKAVLE DPMLKFSGLY QETCSDLYVT CQVFAEGKPL ALPVRTSYKA FSTRWNWNEW LKLPVKYPDL PRNAQVALTI WDVYGPMSAV PVGTTVSLF GKYGMFRQGM HDLKVWPNVE ADGSEPTRTP GRTSSTLSED QMSRLAKLTK AHRQGHMVKV DWLDRLTFRE IEMINESEKR SSNFMYLMVE FRCVKCDDKE YGIVVYEKDG DESSPILTSF ELVKVPDPQM SMENLVESKH HKLARSLRSG PSDHDLKPNA TTRDQLNIIV SYPPTKQLTY EEQDLVWKFY YYLTNQEAL TKFLKCVNWD LPQEAQALE LLGKWKPMDDV EDSLELLSSH YTNPTVRRYA VARLRQADDE DLLMYLLQLV QALKYENFDD IKNGLEPTKK DSQTSASESL SNSGVSSGDI DSSQIITNPL PPVASPPAS KAKEVSDGEN LEQDLCTFLI SRACKNSTLA NYLYWYVIVE CEDQDTQQRD PKTHEMYLNV MRRFSQALLK GDKSVRVMRS LLAAQQTFFD RLVHLMKAVQ RESGNRKKKN ERLQALLGDN EKMNLSDVEL IPLPLEPQVK IRGIIPETAT LFKSALMPAQ LFFKTEDGGK YPVIFKHGDD LRQDQLILQI ISLMDKLLRK

Product Details

ENLDLKLTPY KVLATSTKHG FMQFIQSVPV AEVLDTGSI QNFFRKYAPS ETGPYGISAE
VMDTYVKSCA GYCVITYILG VGDRHLDNLL LTKTGKLFHI DFGYILGRDP KPLPPPMKLN
KEMVEGMGGT QSEQYQEFRK QCYTAFLHLR RYSNLILNLF SLMVDANIPD IALEPDKTVK
KVQDKFRLDL SDEEAVHYMQ SLIDESVHAL FAAVVEQIHK FAQYWRK **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:

PIK3C3

Alternative Name:

Pik3c3 ([PIK3C3 Products](#))

Background:

Phosphatidylinositol 3-kinase catalytic subunit type 3 (PI3-kinase type 3) (PI3K type 3) (PtdIns-3-kinase type 3) (EC 2.7.1.137) (Phosphoinositide-3-kinase class 3),FUNCTION: Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate, different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. As part of PI3KC3-C1, promotes endoplasmic reticulum

Target Details

membrane curvature formation prior to vesicle budding. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity).
{ECO:0000250|UniProtKB:O88763, ECO:0000250|UniProtKB:Q8NEB9}.

Molecular Weight: 101.5 kDa

UniProt: [Q6PF93](#)

Pathways: [AMPK Signaling](#), [Activation of Innate immune Response](#), [Inositol Metabolic Process](#), [Toll-Like Receptors Cascades](#), [Autophagy](#)

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