Datasheet for ABIN7555003

PIK3C3 Protein (AA 1-887) (His tag)

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Overview

Quantity:	1 mg
Target:	PIK3C3
Protein Characteristics:	AA 1-887
Origin:	Human
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:	MGEAEKFHYI YSCDLDINVQ LKIGSLEGKR EQKSYKAVLE DPMLKFSGLY QETCSDLYVT CQVFAEGKPL ALPVRTSYKA FSTRWNWNEW LKLPVKYPDL PRNAQVALTI WDVYGPGKAV PVGGTTVSLF GKYGMFRQGM HDLKVWPNVE ADGSEPTKTP GRTSSTLSED QMSRLAKLTK AHRQGHMVKV DWLDRLTFRE IEMINESEKR SSNFMYLMVE FRCVKCDDKE YGIVYYEKDG DESSPILTSF ELVKVPDPQM SMENLVESKH HKLARSLRSG PSDHDLKPNA ATRDQLNIIV SYPPTKQLTY EEQDLVWKFR YYLTNQEKAL TKFLKCVNWD LPQEAKQALE LLGKWKPMDV EDSLELLSSH YTNPTVRRYA VARLRQADDE DLLMYLLQLV QALKYENFDD IKNGLEPTKK DSQSSVSENV SNSGINSAEI DSSQIITSPL PSVSSPPPAS KTKEVPDGEN LEQDLCTFLI SRACKNSTLA NYLYWYVIVE CEDQDTQQRD PKTHEMYLNV MRRFSQALLK GDKSVRVMRS LLAAQQTFVD RLVHLMKAVQ RESGNRKKKN ERLQALLGDN EKMNLSDVEL IPLPLEPQVK IRGIIPETAT LFKSALMPAQ LFFKTEDGGK YPVIFKHGDD LRQDQLILQI ISLMDKLLRK

Product Details

	ENLDLKLTPY KVLATSTKHG FMQFIQSVPV AEVLDTEGSI QNFFRKYAPS ENGPNGISAE 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 mammalien 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) (Phosphatidylinositol 3-kinase p100 subunit) (Phosphoinositide-3-kinase class 3) (hVps34),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

Target Details

	(PubMed:14617358, PubMed:7628435, PubMed:33637724). As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding (PubMed:32690950). Involved in regulation of degradative endocytic trafficking and required for the abcission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20208530, PubMed:20643123). Involved in the transport of lysosomal enzyme precursors to lysosomes (By similarity). Required for transport from early to late endosomes (By similarity). {ECO:0000250|UniProtKB:O88763, ECO:0000269|PubMed:14617358, ECO:0000269|PubMed:20208530, ECO:0000269|PubMed:20643123, ECO:0000269|PubMed:32690950, ECO:0000269|PubMed:33637724, ECO:0000269|PubMed:7628435}., FUNCTION: (Microbial infection) Kinase activity is required for SARS coronavirus-2/SARS-CoV-2 replication. {ECO:0000269|PubMed:34320401}.
Molecular Weight:	101.5 kDa
UniProt:	Q8NEB9
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