

Recombinant Human PIK3C3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PIK3C3-2394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PIK3C3 MS Standard C13 and N15-labeled recombinant protein (NP_002638) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. 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.
Molecular Mass	101.4 kDa
AA Sequence	MGEAEKFHYIYSCDLINVLKIGSLEGKREQKSYKAVLEDPMLKFSGLYQETCSDL YVTCQVFAEGKPLALPVRTSYKAFSTRWNWNEWLKLVPKYPDLP RNAQVALTIWADV YGP GKAVPVGGTTVSLFGKYGMFRQGMHDLKVWPNVEADGSEPTKTPGRTSSTLS EDQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKRSSNFMVLMVEFRCV KCDDKEYGIVYYEKDGDDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSGP

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SDHDLKPNAATRDQLNIIVSYPPTKQLTYEEQDLVWKFRYYLTNQEKALTKFLKCVN
 WDLPPQEAQALELLGKWKPMDEVDSLELLSSHYNPTVRRYAVARLRQADDEDLL
 MYLLQLVQALKYENFDDIKNGLEPTKKDSQSSVSENVSNNGINSAEIDSSQIITSPLPS
 VSSPPPASKTKEVPDGENLEQDLCTFLISRACKNSTLANLYWYVIVECEDQDTQQR
 DPKTHEMYLNVMMRRFSQALLKGDKSVRVMRSLAAQQTfVDRLVHLMKAVQRESG
 NRKKKNERLQALLGDNEKMNLSDVELIPLPLEPQVKIRGIIPETATLFKSALMPAQLFF
 KTEDGGKYPVIFKHGDDLQDQLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGF
 MQFIQSVPAEVLDTESIQNFFRKYAPSENGPNGISAEVMDTYVKSCAGYCVITYIL
 GVGDRHLDNLLLTKTGKLFHIDFGYILGRDPKPLPPPMKLNKEMVEGMGGTQSEQY
 QEFRKQCYTAFLHLRRYSNLILNLFSLMVDANIPDIALEPDKTVKKVQDKFRLDLSDE
 EAVHYMQSLIDESVHALFAAVVEQIHKFAQYWRKTRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PIK3C3 phosphatidylinositol 3-kinase catalytic subunit type 3 [Homo sapiens (human)]

Official Symbol PIK3C3

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Synonyms	PIK3C3; phosphoinositide-3-kinase, class 3; phosphatidylinositol 3-kinase catalytic subunit type 3; Vps34; PI3K type 3; PI3-kinase type 3; PtdIns-3-kinase type 3; phosphatidylinositol 3-kinase p100 subunit; VPS34; hVps34; MGC61518;
Gene ID	5289
mRNA Refseq	NM_002647
Protein Refseq	NP_002638
MIM	602609
UniProt ID	Q8NEB9
SDS-PAGE	