

Product datasheet for **TP318354**

PIK3C2B (NM_002646) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human phosphoinositide-3-kinase, class 2, beta polypeptide (PIK3C2B), 20 µg

Species: Human

Expression Host: HEK293T



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Expression cDNA Clone or AA Sequence: >RC218354 representing NM_002646
Red=Cloning site Green=Tags(s)

MSSTQDNGEHWKSLESVGISRKELAMAEALQMEYDALSRHRHDKEENRAKQNADPSLISWDEPGVDFYSK
 PAGRRTDLKLRLGSLGSDPTLNYNLSLPQEGPPNHSTSQGPQPGSDPWPKGSLSGDYLYIFDGDGDDGVSS
 SPGPGDIEGSCCKLSPPLPPRASIWDTPPLPPRKGSPSSSKISQPSDINTFSLVEQLPGKLEHRILEE
 EEVLGGGGQGRLGSDVDYDGINDAITRLNLKSTYDAEMLRDATRGWKEGRGPLDFSKDTSKPKVARSKTM
 PPQVPPTYASRYGNRKNATPDKNRRISAAPVGSRPHTVANGHELFEVSEERDEEVAAFCHMLDILRSGS
 DIQDYFLTGYVWSAVTPSPEHLGDEVNLKVTVLCDRLQEALFTFCNCSSVTDLLIYQTLCTHDDLRNVD
 VGDFVLKPCGLEEFLQNKHALGSHEYIQYCRKFDIDIRLQLMQKVVRSDLARTVNDDQSPSTLNYLVHL
 QERPVKQTISRQALSLLFDTYHNEVDAFLADGDFPLKADRVVQSVKAICNALAAVETPEITSALNQLPP
 CPSRMQPKIQKDPVLAVERNREKVVEALTAAILDLVELYCNFTNADFQTAVPGSRKHDLVQEACHFARS
 LAFTVYATHRIPIIWATSYEDFYLSCLSHGGKELCSPLQTRRAHFSKYLFLHIVWDQVICFPVQVNRLP
 RETLLCATLYALPIPPPGSSSEANKQRRVPEALGWVTTPLFNFRQVLTGCRKLLGLWPATQENPSARWSA
 PNFHQPDSVILQIDFPTSAFDIKFTSPPGDKFSPRYEFGSLREEDQRKLDIMQKESLYWLTADKKRLW
 EKRYCHSEVSSLPLVLASAPSWEWACLPIYVLLKQWTHMNHQDALGLLHATFPDQEVRRMAVQWIGSL
 SDAELLDYLPQLVQALKYECYLDSPVLRFLKRAVSDLRVTHYFFWLLKDGLKDSQFSIRYQYLLAALLC
 CCGKGLREEFNRCWLNALAKLAQQVREAAPSARQGILRTGLEEVKQFFALNGSCLPLSPSLLVKGIV
 PRDCSYFNNAVPLKLSFQNVDPGENIRVIFKCGDDLQDMLTLQIMIRIMSKIWVQEGLDMMRMVIFRCF
 STGRGRGMVEMIPNAETLRKIQVEHGVTSFKDRPLADWLQKHNPGEDEYEKAVENFIYSCAGCCVATYV
 LGICDRHNDNIMLKTTHGMFHIDFGRFLGHAQMFGNIKRDRAPVFTSDMAYVINGGDKPSSRFHDFVDL
 CCQAYNLIRKHTHLFLNLLGLMLSCGIPESDLEDLKYVYDALRPQDTEANATTYFTRLISSSLGVSATK
 LNFFIHNLAQMKTGSDDRLLSFASRTHLTKSSGRISDVFLCRHEKIFHPNKGYYVVKVMRENTHEAT
 YIQRTEEFQELHNKLRLLFPSSHLPSFSPRFVIGRSRGEAVAERRREELNGYIWHLIHAPPEVAECDLV
 YTFHPLPRDEKAMGTSPAPKSSDGTWARPVGKVGGEVKLSISYKNNKLFIMVMHIRGLQLLQDGNDDPDP
 YVKIYLLPDPQKTKRKTQVARKTCNPTYNEMLVYDGPKGDLQRELQLSVLSEQGFWENVLLGEVNIR
 LRELDLAQEKTGWFALGSRSHGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 184.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

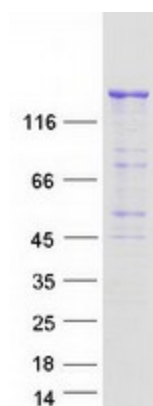
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002637
Locus ID:	5287
UniProt ID:	O00750 , A2RUF7 , Q4LE65
RefSeq Size:	7618
Cytogenetics:	1q32.1
RefSeq ORF:	4902
Synonyms:	C2-PI3K
Summary:	<p>The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca²⁺, which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]</p>
Protein Families:	Druggable Genome
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Product images:



Coomassie blue staining of purified PIK3C2B protein (Cat# TP318354). The protein was produced from HEK293T cells transfected with PIK3C2B cDNA clone (Cat# [RC218354]) using MegaTran 2.0 (Cat# [TT210002]).