

## Product datasheet for PH318354

### PIK3C2B (NM\_002646) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PIK3C2B MS Standard C13 and N15-labeled recombinant protein (NP_002637)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218354
Predicted MW:	184.6 kDa
Protein Sequence:	>RC218354 representing NM_002646 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

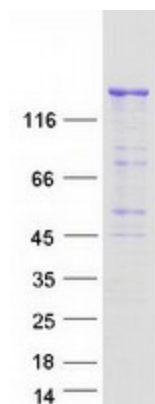
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 LRELDLAQEKTGWFALGSRSHGTL

TR
TRPLEQKLISEEDLAANDILDYKDDDDKV


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<b>Tag:</b>	C-Myc/DDK
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_002637</a>
<b>RefSeq Size:</b>	7618
<b>RefSeq ORF:</b>	4902
<b>Synonyms:</b>	C2-PI3K
<b>Locus ID:</b>	5287
<b>UniProt ID:</b>	<a href="#">O00750</a> , <a href="#">A2RUF7</a> , <a href="#">Q4LE65</a>
<b>Cytogenetics:</b>	1q32.1
<b>Summary:</b>	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 Ca <sup>2+</sup> , which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).