

Recombinant Human PIK3CB/PIK3R2 Protein, His-tagged

Cat. No. PIK3CB-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This PIK3CB/PIK3R2 (p110 beta/p85 beta) recombinant human protein (full length) with His tag was expressed in insect cells.
Species	Human
Source	Insect Cells
Description	PIK3CB/PIK3R2 lipid kinase (p110 beta/p85 beta) or Phosphatidylinositol 3-kinase (PI3K) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids which functions in signaling pathways that regulate cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kDa catalytic subunit and a 85-kDa adaptor subunit. PIK3CB plays a critical role in regulating the formation and stability of alpha-2B-beta-3 integrin adhesion bonds, which are necessary for shear force-induced platelet activation. PIK3CB sustains alpha-2B-beta-3 integrin activation and stabilized platelet aggregation by regulating both integrin-dependent calcium flux and Gi activation of RAP1B.
Form	Liquid
Molecular Mass	123.7 kDa/83.5 kDa
Applications	Validated for use with the Adapta assay Available in multiple pack sizes for convenient use Also available in our SelectScreen Kinase Profiling Service

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Storage Buffer	50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PIK3CB phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta [Homo sapiens (human)]
Official Symbol	PIK3CB
Synonyms	PIK3CB; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta; PI3K; PIK3C1; P110BETA; PI3KBETA; phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3-kinase p110 subunit beta; PI3-kinase subunit beta; PI3K-beta; PtdIns-3-kinase p110; phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta; phosphoinositide-3-kinase, catalytic, beta polypeptide; ptdIns-3-kinase subunit beta; ptdIns-3-kinase subunit p110-beta; serine/threonine protein kinase PIK3CB; EC 2.7.1.153; EC 2.7.11.1
Gene ID	5291
mRNA Refseq	NM_006219
Protein Refseq	NP_006210
MIM	602925
UniProt ID	P42338

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