

Recombinant Human Human PIK3CB, His-tagged

Cat. No. PIK3CB-31766TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PIK3CB with N-terminal His tag and recombinant full length Human PIK3R1, untagged, co expressed in a Baculovirus infected Sf9 cell expression system, 124 kDa, and 83kDa respectively.
Species	Human
Description	Phosphoinositide 3-kinases (PI3Ks) phosphorylate the 3-prime OH position of the inositol ring of inositol lipids. They have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. PI3Ks are composed of a 110-kD catalytic subunit, such as PIK3CB, and an 85-kD adaptor subunit (Hu et al.
Conjugation	HIS
Biological activity	Specific Activity: 7.9 pmol/min/μg. A 50 μl kinase reaction is conducted in a buffer containing 10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 5 mM MgCl ₂ , 5 μM ATP, 17 μg Phosphoinositol-4,5-Bisphosphate, and 150 ng enzyme for 90 minutes at room temperature.
Form	Liquid
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

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Full Length	Full L.
GENE INFORMATION	
Gene Name	PIK3CB phosphoinositide-3-kinase, catalytic, beta polypeptide [Homo sapiens]
Official Symbol	PIK3CB
Synonyms	PIK3CB; phosphoinositide-3-kinase, catalytic, beta polypeptide; PIK3C1; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform;
Gene ID	5291
mRNA Refseq	NM_006219
Protein Refseq	NP_006210
MIM	602925
Uniprot ID	P42338
Chromosome Location	3q21-qter
Pathway	3-phosphoinositide biosynthesis, conserved biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; ATP binding; binding; insulin receptor substrate binding; kinase activity;

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