

## Recombinant Human Human PIK3CB, His-tagged

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

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | 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.   |
| <b>Species</b>             | Human  |
| <b>Description</b>         | 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. |
| <b>Conjugation</b>         | HIS  |
| <b>Biological activity</b> | 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 <sub>2</sub> , 5 μM ATP, 17 μg Phosphoinositol-4,5-Bisphosphate, and 150 ng enzyme for 90 minutes at room temperature.  |
| <b>Form</b>                | Liquid   |
| <b>Storage buffer</b>      | Preservative: None<br>Constituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8  |
| <b>Storage</b>             | 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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