

# Recombinant Human PIK3CB protein, His-tagged

**Cat. No.** PIK3CB-3991H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human PIK3CB protein(139-373 aa), fused to His tag, was expressed in E. coli.                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 139-373 aa                                                                                                                                                                                                                                                                          |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole. |
| <b>AA Sequence</b>      | SLKDPEVNEFRRKMRKFSEEKILSLVGLSWMDWLKQTYPPPEHEPSIPENLEDKLYG<br>GKLIVAVHFENCQDVFSFQVSPNMNPIKVNELAIQKRLTIHGKEDEVSPYDYVLQVSG<br>RVEYVFGDHPLIQFYIRNCVMNRALPHFILVECKIKKMYEQEMIAIEAAINRNSSNL<br>PLPLPPKKTRIISHVWENNNPFQIVLVKGNKLNTEETVKVHVVRAGLFHGTLLCKTIVS<br>SEV                          |
| <b>Purity</b>           | 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                            |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.                                                |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution</b> | Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.<br>Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PIK3CB phosphoinositide-3-kinase, catalytic, beta polypeptide [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | PIK3CB                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | PIK3CB; phosphoinositide-3-kinase, catalytic, beta polypeptide; PIK3C1; phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3K-beta; PtdIns-3-kinase p110; PI3-kinase subunit beta; PI3-kinase p110 subunit beta; ptdIns-3-kinase subunit beta; ptdIns-3-kinase subunit p110-beta; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta; PI3K; P110BETA; PI3KBETA; MGC133043; DKFZp779K1237; |
| <b>Gene ID</b>         | 5291                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_001256045                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001242974                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | 602925                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>      | P42338                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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