

# Chicken Anti-Human PI3K Polyclonal Antibody

**Cat. No.** CPBTT-30929CH    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b>    | Chicken Polyclonal antibody to Human PI3K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>              | Chicken                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Antigen Description</b> | <p>Phosphorylates PtdIn. PtdIns4P, and PtdIns(4.5)P2 with a preference for PtdIns(4.5)P2. 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 kDa catalytic subunit, such as PIK3CB and an 85-kDa adaptor subunit. This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants.</p> |
| <b>Immunogen</b>           | Recombinant protein Phosphoinositide-3-kinase, catalytic, beta polypeptide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formulation</b>         | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity</b>         | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>    | WB (Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200, Optimal concentrations and conditions for each application should be determined by the user.) |                                                                                                                                                                                            |
| <b>Storage buffer</b>  | Preservative: 0.02% Sodium Azide, Constituents: phosphate buffered saline, pH 7.2.                                                                                                                     |                                                                                                                                                                                            |
| <b>Stability</b>       | If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.                        |                                                                                                                                                                                            |
| <b>Storage</b>         | Store at 2–8 °C for up to one week. For extended storage, store in –20 °C freezer in working aliquots. Avoid repeated freeze / thaw cycles.                                                            |                                                                                                                                                                                            |
| <b>Official symbol</b> | PIK3CB                                                                                                                                                                                                 |                                                                                                                                                                                            |
| <b>nullValue_other</b> | Function                                                                                                                                                                                               | 1-phosphatidylinositol-3-kinase activity; ATP binding; insulin receptor substrate binding; phosphatidylinositol 3-kinase activity; phosphatidylinositol-4,5-bisphosphate 3-kinase activity |

## GENE INFORMATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b> | PIK3CB phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>  | PIK3CB; phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta; PI3K; PIK3C1; P110BETA; PI3KBETA; phosphoinositide-3-kinase, catalytic, beta polypeptide; 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; phosphoinositide-3-kinase, catalytic, beta polypeptide; phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta; phosphatidylinositol-4,5- |

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|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| bisphosphate 3-kinase 110 kDa catalytic subunit beta |                                                                                                                                                                                                                                                                                                        |
| <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                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>                                       | 3-phosphoinositide biosynthesis; Acute myeloid leukemia; Adaptive Immune System; Aldosterone-regulated sodium reabsorption; Alpha6-Beta4 Integrin Signaling Pathway; Amoebiasis; Apoptosis; B cell receptor signaling pathway; Bacterial invasion of epithelial cells; CXCR4-mediated signaling events |

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