

Chicken Anti-Human PI3K Polyclonal Antibody

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

SPECIFICATION

Product Overview	Chicken Polyclonal antibody to Human PI3K.
Species	Human
Source	Chicken
Antigen Description	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.
Immunogen	Recombinant protein Phosphoinositide-3-kinase, catalytic, beta polypeptide
Formulation	Liquid
Specificity	Human, Mouse, Rat

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	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.)	
Storage buffer	Preservative: 0.02% Sodium Azide, Constituents: phosphate buffered saline, pH 7.2.	
Stability	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.	
Storage	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.	
Official symbol	PIK3CB	
nullValue_other	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

Gene Name	PIK3CB phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta [Homo sapiens]
Synonyms	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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

bisphosphate 3-kinase 110 kDa catalytic subunit beta	
Gene ID	5291
mRNA Refseq	NM_001256045
Protein Refseq	NP_001242974
MIM	602925
UniProt ID	P42338
Pathway	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA