



Anti-PIK3CB (aa 147-256) polyclonal antibody (DPAB-DC2251)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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	PIK3CB (NP_006210, 147 a.a. ~ 256 a.a) partial recombinant protein with GST tag. The sequence is EFRRKMRKFSEEKILSLVGLSWMDWLKQTYPPPEHEPSIPENLEDKLYGGKLIVAVHFENC QDVFSFQVSPNMNPIKVNELAIQKRLTIHGKEDEVSPYDYVLQVSGRVEY
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PIK3CB phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta [Homo sapiens (human)]
Official Symbol	PIK3CB
Synonyms	PIK3CB; phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta; PI3K; PIK3C1; P110BETA; PI3KBETA; 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-bisphosphate 3-kinase 110 kDa catalytic subunit beta;
Entrez Gene ID	5291
Protein Refseq	NP_001242974
UniProt ID	B4DER4
Chromosome Location	3q22.3
Pathway	3-phosphoinositide biosynthesis; AMPK signaling pathway; Adaptive Immune System; Aldosterone-regulated sodium reabsorption
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; insulin receptor substrate binding