

Product datasheet for SC116228

PIK3CB (NM_006219) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: PIK3CB (NM_006219) Human Untagged Clone
Tag: Tag Free
Symbol: PIK3CB
Synonyms: P110BETA; PI3K; PI3KBETA; PIK3C1
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006219 edited
 GAATTCGGCAGCAGGGGGCTGCTGACTGCGCACTTGAATAGTAGCAGGGCGGCGGGCG
 GAACGCCAGGCAGGGCCCGTGTATGAATGTGCTTCAGTTTCATAATGCCTCCTGCTA
 TGGCAGACATCCTTGACATCTGGGCGGTGATTACAGATAGCATCTGATGGCTCCATAC
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 TTAATGTTCTCAGTCAAATAAATGAGTGAGCTGXXXXXXXXXXXXXXXXXXXXXXXXXX

Protein Pathways:

Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Inositol phosphate metabolism, Insulin signaling pathway, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Phosphatidylinositol signaling system, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, VEGF signaling pathway

Gene Summary:

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. [provided by RefSeq, Dec 2011] Transcript Variant: This variant (1) represent the longer transcript and encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.