

## Human PIK3CB Knockdown Cell Lysate

**Cat. No.** PIK3CB-490HKCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	WB-validated PIK3CB Knockdown HT-1080 Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HT-1080
<b>Description</b>	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.
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	123 kDa
<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.

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<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg PIK3CB KD HT-1080 cell lysate
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	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
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PIK3CB phosphoinositide-3-kinase, catalytic, beta polypeptide [ Homo sapiens (human) ]
<b>Official Symbol</b>	PIK3CB
<b>Synonyms</b>	PIK3CB; phosphoinositide-3-kinase, catalytic, beta polypeptide; PIK3C1;

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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;


**Gene ID** [5291](#)

**mRNA Refseq** [NM\\_001256045](#)

**Protein Refseq** [NP\\_001242974](#)

**MIM** [602925](#)

**UniProt ID** [P42338](#)

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