

## Human PFKFB3 Knockdown Cell Lysate

Cat. No. PFKFB3-489HKCL Lot. No. (See product label)

### SPECIFICATION

**Product Overview** WB-validated PFKFB3 Knockdown HT-1080 Cell Lysate

**Species** Human

**Source** HT-1080

**Description** The protein encoded by this gene belongs to a family of bifunctional proteins that are involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate (F2,6BP), and a fructose-2,6-bisphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**Form** Cell-Tissue Lysis buffer

**Molecular Mass** 60 kDa

**Notes** 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.

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<b>Storage</b>	Store at -20 centigrade for two years.
<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 PFKFB3 KD HT-1080 cell lysate
<b>Protein Families</b>	Druggable Genome
<b>Protein Pathways</b>	Fructose and mannose metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	PFKFB3 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [ Homo sapiens (human) ]
<b>Official Symbol</b>	PFKFB3
<b>Synonyms</b>	PFKFB3; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3; iPFK-2; PFK/FBPase 3; 6PF-2-K/Fru-2,6-P2ase 3; renal carcinoma antigen NY-REN-56; 6PF-2-K/Fru-2,6-P2ase brain/placenta-type isozyme; 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase; 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase; fructose-6-phosphate,2-kinase/fructose-2, 6-bisphosphatase; inducible 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; PFK2; IPFK2; FLJ37326;
<b>Gene ID</b>	5209

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<b>mRNA Refseq</b>	NM_001145443
<b>Protein Refseq</b>	NP_001138915
<b>MIM</b>	605319
<b>UniProt ID</b>	Q16875

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