

Human GPI Knockdown Cell Lysate

Cat. No. GPI-183HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated GPI Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a member of the glucose phosphate isomerase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In the cytoplasm, the gene product functions as a glycolytic enzyme (glucose-6-phosphate isomerase) that interconverts glucose-6-phosphate and fructose-6-phosphate. Extracellularly, the encoded protein (also referred to as neuroleukin) functions as a neurotrophic factor that promotes survival of skeletal motor neurons and sensory neurons, and as a lymphokine that induces immunoglobulin secretion. The encoded protein is also referred to as autocrine motility factor based on an additional function as a tumor-secreted cytokine and angiogenic factor. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment. Alternative splicing results in multiple transcript variants.
Form	Cell-Tissue Lysis buffer
Molecular Mass	63 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa

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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.

Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg GPI KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway, Starch and sucrose metabolism
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	GPI glucose-6-phosphate isomerase [Homo sapiens (human)]
Official Symbol	GPI
Synonyms	GPI; glucose-6-phosphate isomerase; glucose phosphate isomerase; AMF; NLK; neuroleukin; oxoisomerase; sperm antigen 36; sperm antigen-36; phosphohexomutase; phosphosaccharomutase; phosphohexose isomerase; phosphoglucose isomerase; autocrine motility factor; hexosephosphate isomerase; hexose monophosphate isomerase; PGI; PHI; GNPI; SA36; SA-36; DKFZp686C13233;

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Gene ID	2821
mRNA Refseq	NM_000175
Protein Refseq	NP_000166
MIM	172400
UniProt ID	P06744

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