

Human ATP5F1B Knockdown Cell Lysate

Cat. No. ATP5F1B-063HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ATP5F1B Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core.
Form	Cell-Tissue Lysis buffer
Molecular Mass	57 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa 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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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 ATP5F1B KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ATP5F1B ATP synthase F1 subunit beta [Homo sapiens (human)]
Official Symbol	ATP5F1B
Synonyms	ATP5F1B; ATP synthase F1 subunit beta; ATP5B; ATPMB; ATPSB; HUMOP2; HEL-S-271; ATP synthase F(1) complex subunit beta, mitochondrial; ATP synthase subunit beta, mitochondrial; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide; epididymis secretory protein Li 271; mitochondrial ATP synthase beta subunit; mitochondrial ATP synthetase, beta subunit; EC 7.1.2.2
Gene ID	506
mRNA Refseq	NM_001686

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Protein Refseq	NP_001677
MIM	102910
UniProt ID	P06576

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