

Human ATP1B3 Knockdown Cell Lysate

Cat. No. ATP1B3-061HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ATP1B3 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	<p>The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 3 subunit. This gene encodes a beta 3 subunit. A pseudogene exists for this gene, and it is located on chromosome 2.</p>
Form	Cell-Tissue Lysis buffer
Molecular Mass	32 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

 Tel: 1-631-559-9269 1-516-512-3133

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	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 ATP1B3 KD HeLa cell lysate
Protein Families	Transmembrane
Protein Pathways	Cardiac muscle contraction
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ATP1B3 ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide [Homo sapiens (human)]
Official Symbol	ATP1B3
Synonyms	ATP1B3; ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide; sodium/potassium-transporting ATPase subunit beta-3; CD298; FLJ29027; Na, K-ATPase beta-3 polypeptide; sodium/potassium-dependent ATPase beta-3 subunit; sodium/potassium-dependent ATPase subunit beta-3; sodium/potassium-transporting ATPase beta-3 chain; ATPB-3;
Gene ID	483

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mRNA Refseq	NM_001679
Protein Refseq	NP_001670
MIM	601867
UniProt ID	P54709

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