

# Human KPNA2 Knockdown Cell Lysate

**Cat. No.** KPNA2-358HKCL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	WB-validated KPNA2 Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an energy-independent docking of the protein to the nuclear envelope and the second is an energy-dependent translocation through the nuclear pore complex. Imported proteins require a nuclear localization sequence (NLS) which generally consists of a short region of basic amino acids or 2 such regions spaced about 10 amino acids apart. Proteins involved in the first step of nuclear import have been identified in different systems. These include the <i>Xenopus</i> protein importin and its yeast homolog, SRP1 (a suppressor of certain temperature-sensitive mutations of RNA polymerase I in <i>Saccharomyces cerevisiae</i>), which bind to the NLS. KPNA2 protein interacts with the NLSs of DNA helicase Q1 and SV40 T antigen and may be involved in the nuclear transport of proteins. KPNA2 also may play a role in V(D)J recombination. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	58 kDa
<b>Notes</b>	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

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	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.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg KPNA2 KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Stem cell - Pluripotency
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	KPNA2 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [ Homo sapiens (human) ]
<b>Official Symbol</b>	KPNA2
<b>Synonyms</b>	KPNA2; karyopherin alpha 2 (RAG cohort 1, importin alpha 1); RCH1; importin subunit alpha-2; IPOA1; QIP2; SRP1alpha; pendulin; SRP1-alpha; RAG cohort 1; importin alpha 1; importin alpha 2; importin-alpha-P1; RAG cohort protein 1; karyopherin subunit alpha-2;
<b>Gene ID</b>	3838
<b>mRNA Refseq</b>	NM_002266

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<b>Protein Refseq</b>	NP_002257
<b>MIM</b>	600685
<b>UniProt ID</b>	P52292

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