

Human KPNA2 Knockdown Cell Lysate

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

SPECIFICATION

Product Overview	WB-validated KPNA2 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	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 Xenopus 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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	58 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

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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 KPNA2 KD HeLa cell lysate
Protein Families	Druggable Genome, Stem cell - Pluripotency
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	KPNA2 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Homo sapiens (human)]
Official Symbol	KPNA2
Synonyms	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;
Gene ID	3838
mRNA Refseq	NM_002266

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Protein Refseq	NP_002257
MIM	600685
UniProt ID	P52292

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