

Recombinant Human KPNA1 293 Cell Lysate

Cat. No. KPNA1-4892HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for karyopherin alpha 1 (importin alpha 5) (KPNA1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	KPNA1 karyopherin alpha 1 (importin alpha 5) [Homo sapiens]
Official Symbol	KPNA1
Synonyms	KPNA1; karyopherin alpha 1 (importin alpha 5); importin subunit alpha-1; IPOA5; NPI 1; RCH2; SRP1; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2; NPI-1;
Gene ID	3836
mRNA Refseq	NM_002264
Protein Refseq	NP_002255
MIM	600686
UniProt ID	P52294
Chromosome Location	3q21
Pathway	Activation of DNA fragmentation factor, organism-specific biosystem; Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis induced DNA fragmentation, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem; Cytokine

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Signaling in Immune system, organism-specific biosystem;

Function

nuclear localization sequence binding; protein binding; protein transporter activity;

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