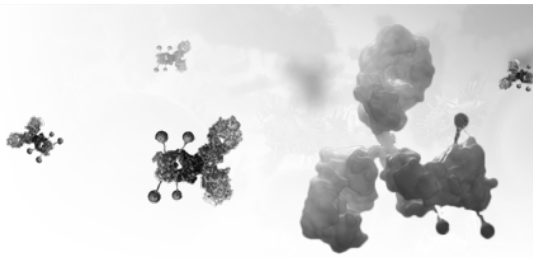

KPNA2 blocking peptide (CDBP5652)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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 Saccharomyces cerevisiae), 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 [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Applications	Used as a blocking peptide in immunoblotting applications.
Format	Liquid
Concentration	200 µg/mL
Size	0.05 mg
Preservative	None
Storage	-20°C

GENE INFORMATION

Gene Name	KPNA2 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Homo sapiens (human)]
Official Symbol	KPNA2

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Synonyms	KPNA2; karyopherin alpha 2 (RAG cohort 1, importin alpha 1); QIP2; RCH1; IPOA1; SRP1alpha; importin subunit alpha-1; pendulin; SRP1-alpha; RAG cohort 1; importin alpha 1; importin alpha 2; importin-alpha-P1; RAG cohort protein 1; importin subunit alpha-2; karyopherin subunit alpha-2
Entrez Gene ID	3838
mRNA Refseq	NM_002266
Protein Refseq	NP_002257
UniProt ID	P52292
Pathway	Antiviral mechanism by IFN-stimulated genes; Cytokine Signaling in Immune system; ISG15 antiviral mechanism; Immune System; Influenza A; Interferon Signaling; Regulation of cytoplasmic and nuclear SMAD2/3 signaling; Role of Calcineurin-dependent NFAT signaling in lymphocytes
Function	histone deacetylase binding; nuclear localization sequence binding; poly(A) RNA binding; protein binding; protein transporter activity

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