



# KPNA1 blocking peptide (CDBP5651)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC), which consists of 60-100 proteins. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import. This protein interacts with the recombination activating gene 1 (RAG1) protein and is a putative substrate of the RAG1 ubiquitin ligase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Used as a blocking peptide in immunoblotting applications.
<b>Format</b>	Liquid
<b>Concentration</b>	200 µg/mL
<b>Size</b>	0.05 mg
<b>Preservative</b>	None
<b>Storage</b>	-20°C

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KPNA1 karyopherin alpha 1 (importin alpha 5) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	KPNA1
<b>Synonyms</b>	KPNA1; karyopherin alpha 1 (importin alpha 5); RCH2; SRP1; IPOA5; NPI-1; importin subunit alpha-5; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; importin

subunit alpha-1; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2

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<b>Entrez Gene ID</b>	<a href="#">3836</a>
<b>mRNA Refseq</b>	<a href="#">NM_002264</a>
<b>Protein Refseq</b>	<a href="#">NP_002255</a>
<b>UniProt ID</b>	P52294
<b>Pathway</b>	Activation of DNA fragmentation factor; Antiviral mechanism by IFN-stimulated genes; Apoptosis; Apoptosis induced DNA fragmentation; Apoptotic execution phase; Class I PI3K signaling events mediated by Akt; Cytokine Signaling in Immune system; Disease
<b>Function</b>	nuclear localization sequence binding; protein binding; protein transporter activity

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