



Rabbit Anti-Human KPNa2 Polyclonal Antibody (CABT-L2028)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Karyopherin Alpha 2 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against KPNa2. It has been selected for its ability to recognize KPNa2 in immunohistochemical staining and western blotting.
Target	KPNa2
Immunogen	Recombinant fragment corresponding to human KPNA2 (Ala157~Gln412)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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 [provided by RefSeq, Jul 2008]
Keywords	IPOA1;QIP2;RCH1;SRP1alpha;RAG Cohort 1;Importin Alpha 1;RAG cohort protein 1;SRP1-alpha

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); 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
Protein Refseq	NP_002257
UniProt ID	P52292
Chromosome Location	17q24.2
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;
