

# Recombinant Human KPNA2

Catalog No: #GP13427



Package Size: #GP13427-1 100ug

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant Human KPNA2
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 330-529 amino acids of human KPNA2
Target Name	karyopherin subunit alpha 2
Other Names	QIP2; RCH1; IPOA1; SRP1alpha; SRP1-alpha
Accession No.	Swissprot:P52292Gene Accession:BC005978
Uniprot	P52292
GeneID	3838;
Storage	-20~-80°C, pH 7.6 PBS

## Background

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. Alternative splicing results in multiple transcript variants.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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