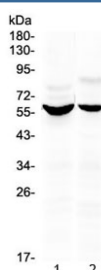


## KPNA2 Antibody (N-Terminal Region) (R32911)

Catalog No.	Formulation	Size
R32911	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
<b>UniProt</b>	P52292
<b>Applications</b>	Western Blot : 0.5-1ug/ml
<b>Limitations</b>	This KPNA2 antibody is available for research use only.



Western blot testing of human 1) HeLa and 2) HepG2 cell lysate with KPNA2 antibody at 0.5ug/ml. Predicted molecular weight: ~58 kDa.

## Description

Importin subunit alpha-2 is a protein that in humans is encoded by the KPNA2 gene. 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.

## Application Notes

Optimal dilution of the KPNA2 antibody should be determined by the researcher.

## Immunogen

Amino acids 2-46 (STNENANTPAARLHRFKNKGKDSTEMRRRRRIEVNVELRKAKKDDQ) were used as the immunogen for the KPNA2 antibody.

## Storage

After reconstitution, the KPNA2 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.