

KPNA2 Antibody
Rabbit mAb
Catalog # AP91640**Specification**

KPNA2 Antibody - Product Information

Application	WB, FC
Primary Accession	P52292
Reactivity	Rat
Clonality	Monoclonal
Other Names	
QIP2; RCH1; IPOA1; SRP1alpha;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	57862 Da

KPNA2 Antibody - Additional Information

Dilution	WB~~1:1000 FC~~1:10~50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human KPNA2
Description	Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

KPNA2 Antibody - Protein Information**Name** KPNA2 ([HGNC:6395](#))**Synonyms** RCH1, SRP1**Function**

Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1 (PubMed:28991411, PubMed:32130408, PubMed:7604027, PubMed:7754385). Binds specifically and directly to substrates containing either a simple or bipartite NLS motif (PubMed:28991411, PubMed:32130408, PubMed:7604027, PubMed:7754385).

[32130408](http://www.uniprot.org/citations/32130408), PubMed:<[7604027](http://www.uniprot.org/citations/7604027)>, PubMed:<[7754385](http://www.uniprot.org/citations/7754385)>). Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism (PubMed:<[7604027](http://www.uniprot.org/citations/7604027)>, PubMed:<[7754385](http://www.uniprot.org/citations/7754385)>). At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus. Mediator of PR-DUB complex component BAP1 nuclear import; acts redundantly with KPNA1 and Transportin-1/TNPO1 (PubMed:<[35446349](http://www.uniprot.org/citations/35446349)>).

Cellular Location

Cytoplasm. Nucleus

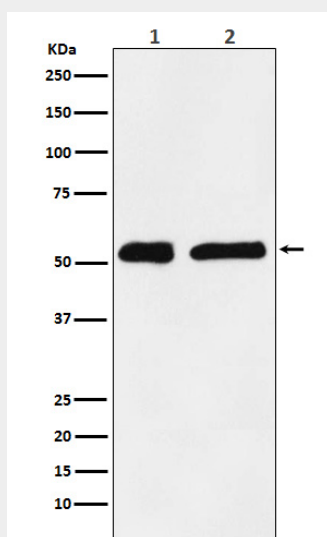
Tissue Location

Expressed ubiquitously.

KPNA2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KPNA2 Antibody - Images

Western blot analysis of KPNA2 expression in (1) HeLa cell lysate; (2) C6 cell lysate.