

**RCH1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10599****Specification**

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**RCH1 Antibody - Product Information**

Application	WB, IP
Primary Accession	<a href="#">P52292</a>
Other Accession	<a href="#">NP_002257.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57862

**RCH1 Antibody - Additional Information****Gene ID 3838**

Application & Usage	<b>Western blotting (1:500 - 1:2000) and Immunoprecipitation. However, the optimal concentrations should be determined individually. HeLa cell lysate can be used as a positive control. The antibody recognizes the RCH1 (KPNA2) of human origin. Reactivity to other species has not been tested.</b>
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**Other Names**

RCH1, RAG cohort 1, KPNA2, Karyopherin alpha 2, IPOA1, Importin alpha 2, Pendulin, QIP2, SRP1alpha

**Target/Specificity**

RCH1

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µl affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 1% BSA and 0.02% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

## Background Descriptions

### Precautions

RCH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## RCH1 Antibody - Protein Information

**Name** KPNA2 ([HGNC:6395](#))

**Synonyms** RCH1, SRP1

### Function

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. 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. 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.

### Cellular Location

Cytoplasm. Nucleus

### Tissue Location

Expressed ubiquitously.

## RCH1 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](#)

## RCH1 Antibody - Images

## RCH1 Antibody - Background

The import of proteins from the cytoplasm to the nucleus involves docking the protein to receptors associated with the nuclear pore complex followed by translocation through the nuclear pore. RCH1 is an adaptor protein that recognizes the nuclear localization signal (NLS) on cargo and binds the karyopherin importin-beta receptor for nuclear import which is regulated by RanGTP.