

**Goat anti-KPNA2 / IPOA1, Biotinylated Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4359a****Specification**

---

**Goat anti-KPNA2 / IPOA1, Biotinylated Antibody - Product Information**

Application	WB, IF, Pep-ELISA
Primary Accession	<a href="#">P52292</a>
Other Accession	<a href="#">NP_002257.1</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	57862

**Goat anti-KPNA2 / IPOA1, Biotinylated Antibody - Additional Information****Gene ID** 3838**Other Names**

KPNA2; karyopherin alpha 2 (RAG cohort 1, importin alpha 1); IPOA1; QIP2; RCH1; SRP1alpha; RAG cohort 1; RAG cohort protein 1; SRP1-alpha; importin alpha 1; importin alpha 2; importin subunit alpha-2; importin-alpha-P1; karyopherin subunit alpha-2; pendul

**Dilution**

WB~~1:1000  
IF~~1:50~200  
Pep-ELISA~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat anti-KPNA2 / IPOA1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat anti-KPNA2 / IPOA1, Biotinylated 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:<a href="http://www.uniprot.org/citations/28991411" target="\_blank">28991411</a>, PubMed:<a href="http://www.uniprot.org/citations/32130408" target="\_blank">32130408</a>, PubMed:<a href="http://www.uniprot.org/citations/7604027" target="\_blank">7604027</a>, PubMed:<a href="http://www.uniprot.org/citations/7754385" target="\_blank">7754385</a>). Binds specifically and directly to substrates containing either a simple or bipartite NLS motif (PubMed:<a href="http://www.uniprot.org/citations/28991411" target="\_blank">28991411</a>, PubMed:<a href="http://www.uniprot.org/citations/32130408" target="\_blank">32130408</a>, PubMed:<a href="http://www.uniprot.org/citations/7604027" target="\_blank">7604027</a>, PubMed:<a href="http://www.uniprot.org/citations/7754385" target="\_blank">7754385</a>). 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:<a href="http://www.uniprot.org/citations/7604027" target="\_blank">7604027</a>, PubMed:<a href="http://www.uniprot.org/citations/7754385" target="\_blank">7754385</a>). 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:<a href="http://www.uniprot.org/citations/35446349" target="\_blank">35446349</a>).

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Expressed ubiquitously.

**Goat anti-KPNA2 / IPOA1, Biotinylated 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](#)

**Goat anti-KPNA2 / IPOA1, Biotinylated Antibody - Images**