

Product datasheet

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ARG55334 anti-KPNA2 / IPOA1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes KPNA2 / IPOA1

Tested Reactivity Hu, Ms

Tested Application IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name KPNA2 / IPOA1

Species Human

Immunogen Recombinant protein of Human KPNA2 (NP_002257.1)

Conjugation Un-conjugated

Alternate Names Karyopherin subunit alpha-2; SRP1alpha; Importin subunit alpha-1; QIP2; RCH1; IPOA1; SRP1-alpha;

RAG cohort protein 1

Application Instructions

Application table	Application	Dilution
	IP	Assay-dependent
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	PC-3	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background

Database links GeneID: 16647 Mouse

GeneID: 3838 Human

Swiss-port # P52292 Human

Swiss-port # P52293 Mouse

Gene Symbol KPNA2

Gene Full Name karyopherin alpha 2 (RAG cohort 1, importin alpha 1)

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

The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an energy-

recombination [provided by RefSeq, Jul 2008]

Function Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically

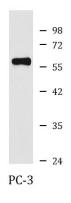
and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, 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. [UniProt]

Research Area Immune System antibody; Signaling Transduction antibody

Calculated Mw 58 kDa

Images



ARG55334 anti-KPNA2 / IPOA1 antibody WB image

Western blot: PC-3 cell lysate stained with ARG55334 anti-KPNA2 / IPOA1 antibody.