Karyopherin Alpha2 (KPNA2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Karyopherin alpha2 (KPNA2), Polyclonal Antibody
Full Product Name	Karyopherin alpha2 Rabbit pAb
Product Gene Name	anti-KPNA2 antibody
Product Synonym Names	KPNA2; RCH1; SRP1; Importin subunit alpha-2; Karyopherin subunit alpha-2; RAG cohort protein 1; SRP1-alpha
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C for 1 year.
OMIM	600685
3D Structure	ModBase 3D Structure for P52292
Immunogen	Synthesized peptide derived from the N-terminal region of human Karyopherin alpha2.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KPNA2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-KPNA2 antibody	WB: 1:500-1:2000 ELISA: 1:10000
Related Product Information for anti-KPNA2 antibody	MBS8540967 is an antibody targeting KPNA2. Also known as Karyopherin alpha2 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-KPNA2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KPNA2. It may not necessarily be applicable to this product.

NCBI GI #	1708480
NCBI GeneID	3838
NCBI Accession #	P52292.1
UniProt Primary Accession #	P52292
UniProt Related Accession #	P52292
NCBI Official Full Name	Importin subunit alpha-1
NCBI Official Synonym Full Names	karyopherin subunit alpha 2

NCBI Official Symbol	KPNA2
NCBI Official Synonym Symbols	QIP2; RCH1; IPOA1; SRP1alpha; SRP1-alpha
UniProt Protein Name	Importin subunit alpha-1
UniProt Synonym Protein Names	Karyopherin subunit alpha-2; RAG cohort protein 1; SRP1-alpha
UniProt Gene Name	KPNA2
UniProt Synonym Gene Names	RCH1; SRP1
UniProt Entry Name	IMA1_HUMAN
NCBI Protein Information	importin subunit alpha-1
NCBI Summary for KPNA2	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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]
UniProt Comments for KPNA2	KPNA2: 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. Belongs to the importin alpha family. Protein type: Nuclear import; Karyopherin; Nucleoporin Chromosomal Location of Human Ortholog: 17q24.2 Cellular Component: nucleoplasm; membrane; cytoplasm; cytosol Molecular Function: protein binding; histone deacetylase binding; nuclear localization sequence binding; protein transporter activity Biological Process: viral reproduction; cytokine and chemokine mediated signaling pathway; regulation of DNA recombination; NLS-bearing substrate import into nucleus; DNA metabolic process
Research Articles on KPNA2	**1.** these data revealed the essential roles of the miR-139/KPNA2 axis in hepatocellular carcinoma.
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