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Zuschläge

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KPNA2 Antibody - middle region : FITC (ARP54673_P050-FITC)

Data Sheet

Product Number	ARP54673_P050-FITC
Product Page	www.avivasysbio.com/kpna2-antibody-middle-region-fitc-arp54673-p050-fitc.html
Name	KPNA2 Antibody - middle region : FITC (ARP54673_P050-FITC)
Protein Size (# AA)	529 amino acids
Molecular Weight	58kDa
Subunit	alpha-2
Conjugation	FITC: Fluorescein Isothiocyanate
NCBI Gene Id	3838
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
Alias Symbols	QIP2, RCH1, IPOA1, SRP1alpha, SRP1-alpha
Peptide Sequence	Synthetic peptide located within the following region: GTDEQTQVVIDAGALAVFPSLLTNPKTNIQKEATWTMSNITAGRQDQIQQ
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Kodiha,M., (2008) Biochim. Biophys. Acta 1783 (3), 405-418
Description of Target	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.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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Protein Interactions	NUP50; HOMEZ; TRIM54; NECAB2; SERTAD3; NUP62; RBPMS; HMG20A; HUWE1; MAGED1; UBC; TADA2A; MLH1; MDFI; FUS; AP2B1; INO80E; NUTM1; KRT40; PNMA5; LZTS2; USHBP1; NMNAT1; GMCL1; HNRNPC; SMAD6; rev; KPNA4; HSP90AB1; PRMT1; ACLY; COPS4; KPNA6; CDK11A; SRPK1; CLK3
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-KPNA2 (ARP54673_P050-FITC) antibody
Blocking Peptide	For anti-KPNA2 (ARP54673_P050-FITC) antibody is Catalog # AAP54673 (Previous Catalog # AAPP31464)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human KPNA2
Uniprot ID	P52292

Protein Name	Importin subunit alpha-2
Protein Accession #	NP_002257
Purification	Affinity Purified
Nucleotide Accession #	NM_002266
Gene Symbol	KPNA2
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Pig, Rabbit
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 93%; Dog: 100%; Guinea Pig: 86%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 93%; Rabbit: 100%; Rat: 100%
Image 1	

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Optimal conditions of its use should be determined by end users.

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