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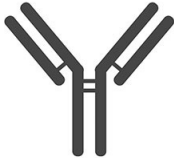
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Product Number	ARP54674_P050-Biotin
Product Page	www.avivasysbio.com/kpna3-antibody-n-terminal-region-biotin-arp54674-p050-biotin.html
Name	KPNA3 Antibody - N-terminal region : Biotin (ARP54674_P050-Biotin)
Protein Size (# AA)	521 amino acids
Molecular Weight	58kDa
Subunit	alpha-3
Conjugation	Biotin
NCBI Gene Id	3839
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Karyopherin alpha 3 (importin alpha 4)
Alias Symbols	SRP1, SRP4, IPOA4, hSRP1, SRP1 gamma
Peptide Sequence	Synthetic peptide located within the following region: AENPSLENHRIKSFKNKGRDVETMRRHRNEVTVELRKNKRDEHLLKKNRV
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Singh, A.P., (2007) Cell 131 (3), 492-504
Description of Target	The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC) which consists of 60-100 proteins and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; larger molecules are transported by an active process. Most nuclear proteins contain short basic amino acid sequences known as nuclear localization signals (NLSs). KPNA3 is a protein similar to certain nuclear transport proteins of <i>Xenopus</i> and human. The predicted amino acid sequence shows similarity to <i>Xenopus</i> importin, yeast SRP1, and human RCH1 (KPNA2), respectively. The similarities among these proteins suggest that karyopherin alpha-3 may be involved in the nuclear transport system. The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC) which consists of 60-100 proteins and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; larger molecules are transported by an active process. Most nuclear proteins contain short basic amino acid sequences known as nuclear localization signals (NLSs). KPNA3, encodes a protein similar to certain nuclear transport proteins of <i>Xenopus</i> and human. The predicted amino acid sequence shows similarity to <i>Xenopus</i> importin, yeast SRP1, and human RCH1 (KPNA2), respectively. The similarities among these proteins suggests that karyopherin alpha-3 may be involved in the nuclear transport system. 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	TEX37; SLC5A11; APOL6; RPRD1A; ZCCHC10; MAT2B; NUP50; TSSC4; ZBTB24; DDX21; MTA1; HNRNPC; FTL; MVP; HSF1; UBC; MMS19; KPNA6; MCM6; MCM4; HDAC1; UL122; NACC1; NFE2L2; MYOD1; GIF2H1; GATA6; ERCC3; EPHA2; CBX5; TP53BP1; BARD1; ZNF131; COIL; CUL3; Ranbp2; Mki
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-KPNA3 (ARP54674_P050-Biotin) antibody
Blocking Peptide	For anti-KPNA3 (ARP54674_P050-Biotin) antibody is Catalog # AAP54674 (Previous Catalog # AAPP31465)
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human KPNA3
Uniprot ID	O00505

Protein Name	Importin subunit alpha-3
Sample Type Confirmation	KPNA3 is strongly supported by BioGPS gene expression data to be expressed in HepG2, MCF7 KPNA3 is supported by BioGPS gene expression data to be expressed in HeLa
Protein Accession #	NP_002258
Purification	Affinity Purified
Nucleotide Accession #	NM_002267
Gene Symbol	KPNA3
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Zebrafish
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 77%; Dog: 77%; Guinea Pig: 100%; Human: 100%; Mouse: 100%; Rat: 100%; Zebrafish: 100%
Image 1	

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

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