

Product datasheet for **TA335052**

KPNA3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-KPNA3 antibody: synthetic peptide directed towards the N terminal of human KPNA3. Synthetic peptide located within the following region: AENPSLENHRIKSFKNKGRDVETMRRHRNEVTVELRKNKRDEHLLKARNV
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58 kDa
Gene Name:	karyopherin subunit alpha 3
Database Link:	NP_002258 Entrez Gene 3839 Human O00505



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Background:

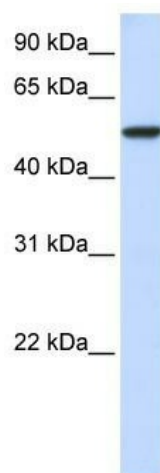
The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC) which consists of 60-100 proteins and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; 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 *Xenopus* and human. The predicted amino acid sequence shows similarity to *Xenopus* 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 *Xenopus* and human. The predicted amino acid sequence shows similarity to *Xenopus* 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.

Synonyms:

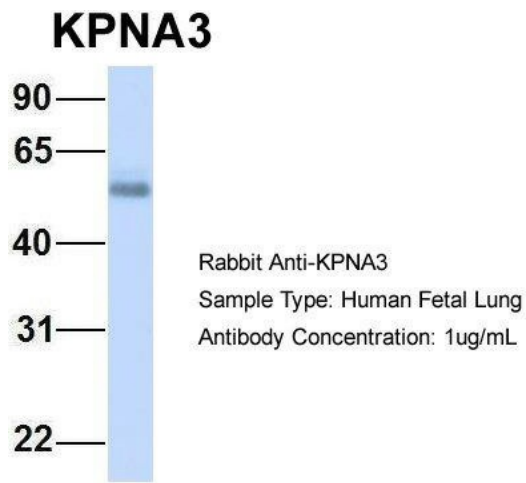
hSRP1; IPOA4; SRP1; SRP1gamma; SRP4

Note:

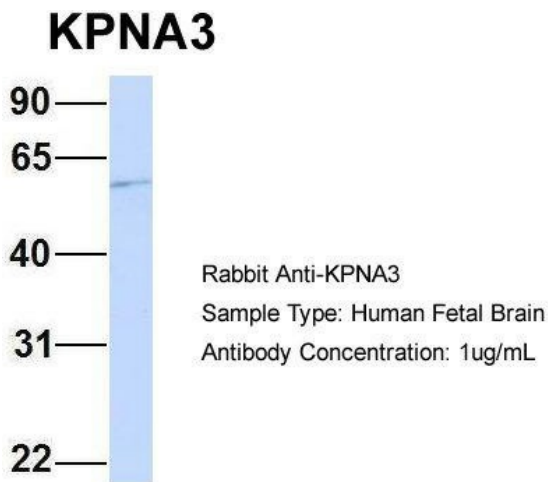
Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Zebrafish: 100%; Guinea pig: 100%; Dog: 77%; Bovine: 77%

Product images:

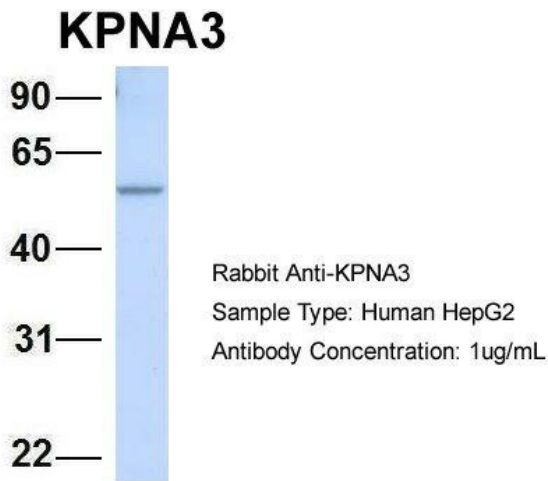
WB Suggested Anti-KPNA3 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 12500; Positive Control: MCF7 cell lysate. KPNA3 is strongly supported by BioGPS gene expression data to be expressed in MCF7



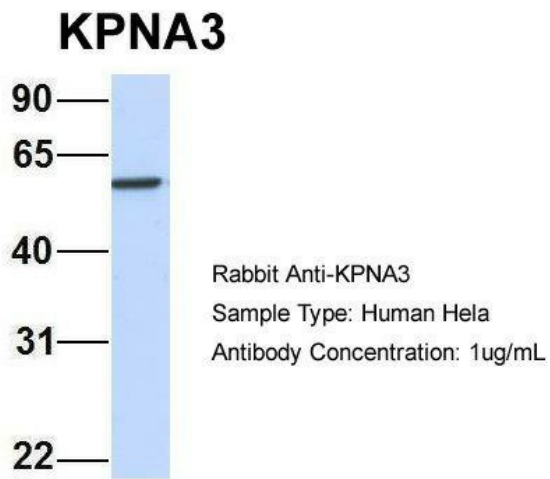
Host: Rabbit; Target Name: KPNA3; Sample Tissue: Human Fetal Lung; Antibody Dilution: 1.0 ug/ml



Host: Rabbit; Target Name: KPNA3; Sample Tissue: Human Fetal Brain; Antibody Dilution: 1.0 ug/ml



Host: Rabbit; Target Name: KPNA3; Sample Tissue: HepG2; Antibody Dilution: 1.0 ug/ml; KPNA3 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells



Host: Rabbit; Target Name: KPNA3; Sample Tissue: HeLa; Antibody Dilution: 1.0 ug/ml; KPNA3 is supported by BioGPS gene expression data to be expressed in HeLa