

Product Name: KD-Validated KPNA1 Mouse Monoclonal Antibody**Catalog #: KVA00375**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 60.2kDa

Antigen Information

Gene Name	KPNA1
Alternative Names	KPNA1; Karyopherin Subunit Alpha 1; NPI-1; RCH2; IPOA5; SRP1; Karyopherin Alpha 1 (Importin Alpha 5); Nucleoprotein Interactor 1; Importin Subunit Alpha-5; RAG Cohort Protein 2; Importin Alpha 5; SRP1-Beta; Recombination Activating Gene Cohort; Karyopherin Subunit Alpha-1; Importin Subunit Alpha-1; Karyopherin Alpha 1; Importin-Alpha-S1
Gene ID	3836.0
SwissProt ID	P52294
Immunogen	Recombinant protein of human KPNA1

Background

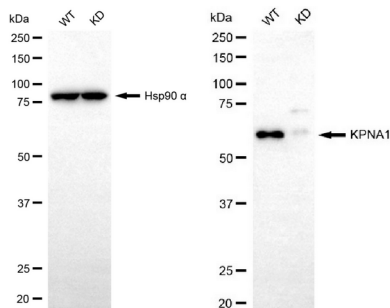
The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex

(NPC), which consists of 60-100 proteins. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import. This protein interacts with the recombination activating gene 1 (RAG1) protein and is a putative substrate of the RAG1 ubiquitin ligase. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

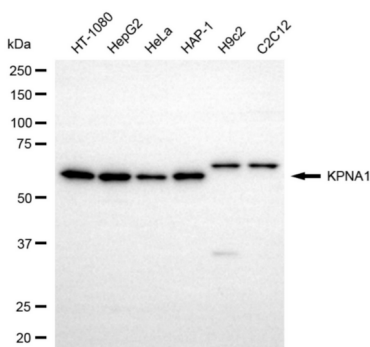
Research Area

Immunology, Signal Transduction

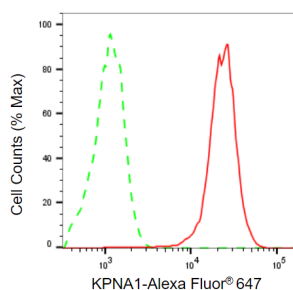
Image Data



Western blotting analysis using KPNA1 antibody (KVA00375). KPNA1 expression in wild-type (WT) and KPNA1 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with KPNA1 antibody (KVA00375, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using KPNA1 antibody (KVA00375). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with KPNA1 antibody (KVA00375, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of KPNA1 expression in HepG2 cells using KPNA1 antibody (KVA00375, 1:2,000). Green, isotype control; red, KPNA1.