



Anti-KPNA1 (full length) polyclonal antibody (DPAB-DC1796)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	KPNA1 (AAH02374.1, 1 a.a. ~ 538 a.a) full-length recombinant protein with GST tag. The sequence is MTTPGKENFRLKSYKNKSLNPDEMRRRREEEGLQLRKQKREEQLFKRRNVATAEEEEEEEE VMSDGGFHEAQINNMEMAPGGVITSDMIEMIFSKSPEQQLSATQKFRKLLSKEPNPPIDE VISTPGVVARFVEFLKRKENCTLQFESAWVLTNIASGNSLQTRIVIQAGAVPIFIELLS EFEDVQEQAVALGNIAGDSTMCRDYVLDCNILPPLLQLFSKQNRMTMTRNAVWALSNLCL RGKSPPEFAKVSPCLNVLSWLLFVSDTDVLADACWALSYSLSGPNNDKIQAVIDAGVCRR LVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALQSLHLLSSPKESIKKEACW TISNITAGNRAQIQTVIDANIFPALISILQTAEFRTRKEAA
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Conjugate	Unconjugated
Applications	WB (Cell lysate), WB (Cell lysate), WB (Cell lysate), WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	KPNA1 karyopherin alpha 1 (importin alpha 5) [Homo sapiens (human)]
Official Symbol	KPNA1
Synonyms	KPNA1; karyopherin alpha 1 (importin alpha 5); RCH2; SRP1; IPOA5; NPI-1; importin subunit alpha-5; SRP1-beta; importin alpha 5; importin-alpha-S1; RAG cohort protein 2; importin subunit alpha-1; nucleoprotein interactor 1; karyopherin subunit alpha-1; recombination activating gene cohort 2;
Entrez Gene ID	3836
Protein Refseq	NP_002255
UniProt ID	P52294
Chromosome Location	3q21
Pathway	Activation of DNA fragmentation factor; Apoptosis; Apoptotic execution phase; Cytokine Signaling in Immune system
Function	nuclear localization sequence binding; protein binding; protein transporter activity;