

Karyopherin α 2 (Acetyl Lys22) rabbit pAb

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| Catalog No : | YK0153 |
| Reactivity : | Human;Mouse;Rat |
| Applications : | WB;ELISA;IHC |
| Target : | Karyopherin α 2 |
| Fields : | >>Nucleocytoplasmic transport;>>Influenza A;>>Chemical carcinogenesis - receptor activation |
| Gene Name : | KPNA2 RCH1 SRP1 |
| Protein Name : | Karyopherin α 2 (Acetyl Lys22) |
| Human Gene Id : | 3838 |
| Human Swiss Prot No : | P52292 |
| Mouse Gene Id : | 16647 |
| Mouse Swiss Prot No : | P52293 |
| Immunogen : | Synthesized peptide derived from human Karyopherin α 2 (Acetyl Lys22) |
| Specificity : | This antibody detects endogenous levels of Human,Mouse,Rat Karyopherin α 2 (Acetyl Lys22) |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000 |
| Purification : | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. |
| Concentration : | 1 mg/ml |

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 60kD

Background : 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 re

Function : domain:Consists of an N-terminal hydrophilic region, a hydrophobic central region composed of 10 repeats, and a short hydrophilic C-terminus. The N-terminal hydrophilic region contains the importin beta binding domain (IBB domain), which is sufficient for binding importin beta and essential for nuclear protein import.,domain:The IBB domain is thought to act as an intrasteric autoregulatory sequence by interacting with the internal autoinhibitory NLS. Binding of KPNB1 probably overlaps the internal NLS and contributes to a high affinity for cytoplasmic NLS-containing cargo substrates. After dissociation of the importin/substrate complex in the nucleus the internal autoinhibitory NLS contributes to a low affinity for nuclear NLS-containing proteins.,domain:The major and minor NLS binding sites are mainly involved in recognition of simple or bipartite NLS motifs. Structurally located within i

Subcellular Location : Cytoplasm . Nucleus .; Endoplasmic reticulum membrane. Golgi apparatus membrane . (Microbial infection) Retained in ER/Golgi membranes upon interaction with SARS-COV virus ORF6 protein. .

Expression : Expressed ubiquitously.

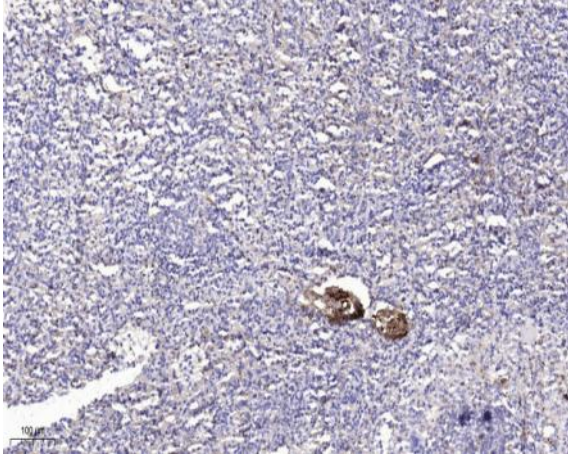
Sort : 8840

No4 : 1

Host : Rabbit

Modifications : Acetyl

Products Images



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).