KPNA2 monoclonal antibody

Catalog: MB22094 Host: Mouse Reactivity: Human,Mouse

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 recombination.

Product:

Purified antibody in PBS with 0.05% sodium azide

Molecular Weight:

58kDa

Swiss-Prot:

P52292

Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 IF:1/200 - 1/1000 FC:1/200 - 1/400

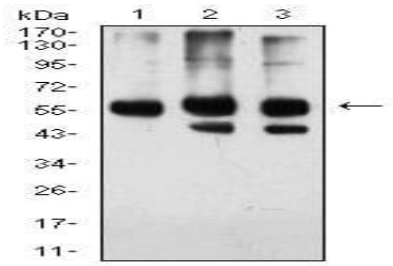
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

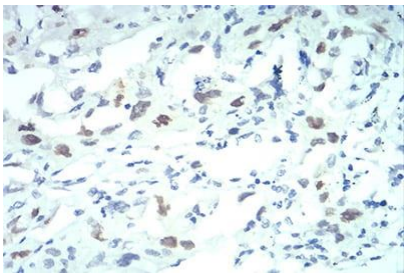
Isotype:

Mouse IgG1

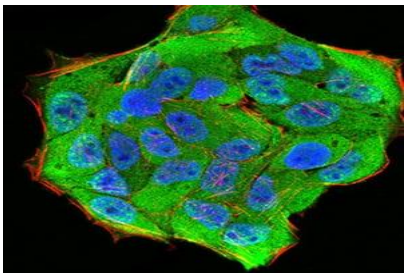
DATA:



Western blot analysis using KPNA2 mouse mAb against Hela (1), HEK293 (2), and NIH/3T3 (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using KPNA2 mouse mAb with DAB staining.



Immunofluorescence analysis of Hela cells using KPNA2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

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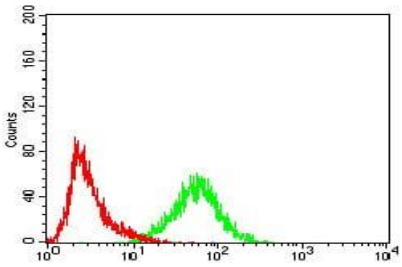

Flow cytometric analysis of Hela cells using KPNA2 mouse mAb (green) and negative control (red).

Note:

For research use only, not for use in diagnostic procedure.

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