Importin 9 Rabbit monoclonal antibody

Catalog: MB66257 Host: Rabbit Reactivity: Human

BackGround:

Nuclear transport receptor that mediates nuclear import of proteins, such as histones, proteasome and actin.

Serves as receptor for nuclear localization signals (NLS) in cargo substrates.

Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism.

At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran.

The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus.

Mediates the import of pre-assembled proteasomes into the nucleus; AKIRIN2 acts as a molecular bridge between IPO9 and the proteasome complex.

Mediates the nuclear import of histones H2A, H2B, H4 and H4.

In addition to nuclear import, also acts as a chaperone for histones by preventing inappropriate non-nucleosomal interactions.

Mediates the nuclear import of actin.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 120 kDa

Swiss-Prot:

Q96P70

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

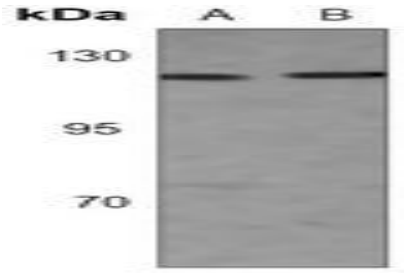
Storage&Stability:

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

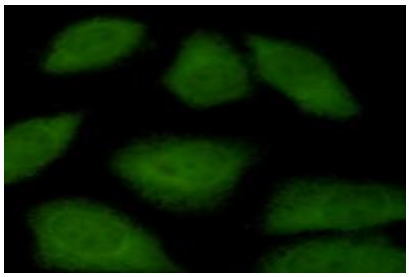
Specificity:

Recognizes endogenous levels of Importin 9 protein.

DATA:



Western blot analysis of Importin 9 expression in Jurkat (A), Hela (B) whole cell lysates.



Immunofluorescent analysis of Importin 9 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS

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for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

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

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