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Importin Alpha 5/KPNA1 Rabbit mAb

Catalog No.: A24117 Recombinant

Basic Information

Observed MW
62kDa

Calculated MW
60kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC,IP

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC65389

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.

Recommended Dilutions

WB	1:2000 - 1:4000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

Immunogen Information

Gene ID
3836

Swiss Prot
P52294

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human Importin Alpha 5/KPNA1(NP_002255.3).

Synonyms
RCH2; SRP1; IPOA5; NPI-1; Importin Alpha 5/KPNA1

Contact

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Product Information

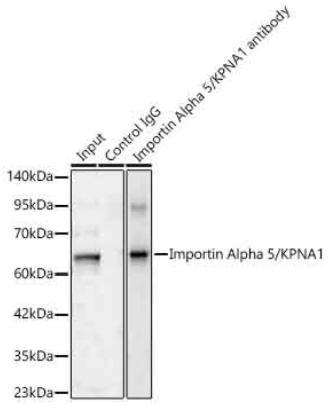
Source
Rabbit

Isotype
IgG

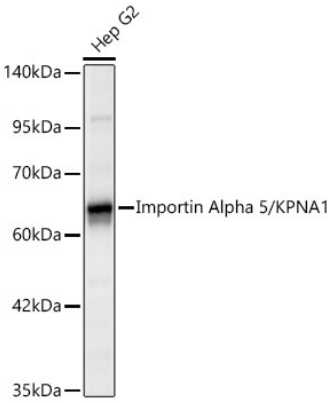
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

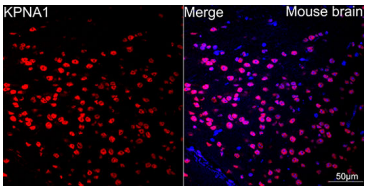
Validation Data



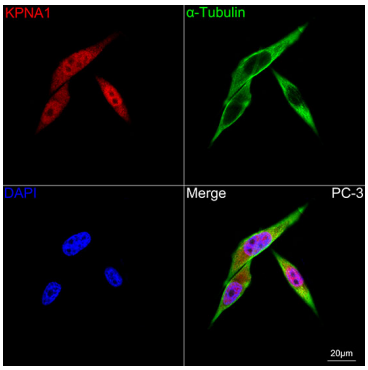
Immunoprecipitation of Importin Alpha 5/KPNA1 in 300 µg extracts from 293T cells using 3 µg Importin Alpha 5/KPNA1 Rabbit mAb (A24117). Western blot analysis was performed using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at 1:3000 dilution.



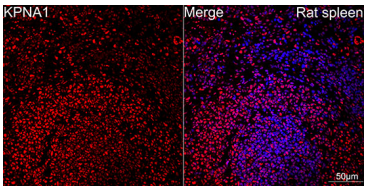
Western blot analysis of lysates from Hep G2 cells using Importin Alpha 5/KPNA1 Rabbit mAb(A24117) at 1:3000 dilution.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposuretime:20s.



Confocal imaging of paraffin-embedded Mouse brain using Importin Alpha 5/KPNA1 Rabbit mAb (A24117,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

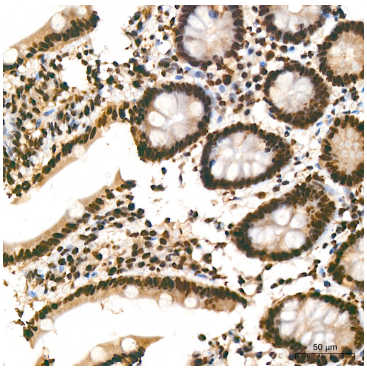


Confocal imaging of PC-3 cells using Importin Alpha 5/KPNA1 Rabbit mAb (A24117,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green).DAPI was used for nuclear staining (Blue). Objective: 100x.

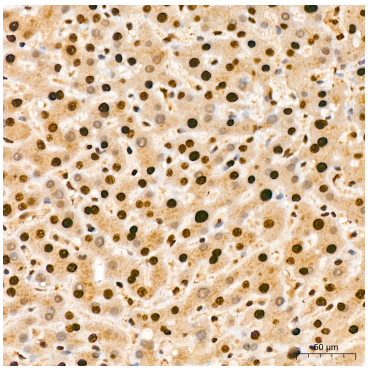


Confocal imaging of paraffin-embedded Rat spleen using Importin Alpha 5/KPNA1 Rabbit mAb (A24117,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.

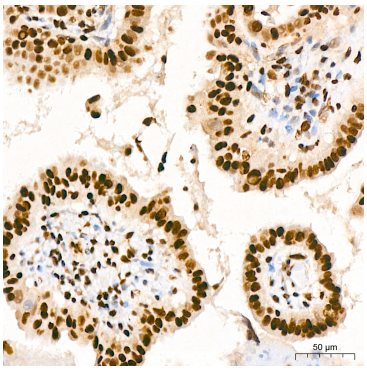
Validation Data



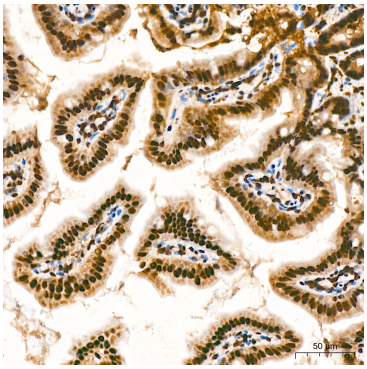
Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded human colon tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



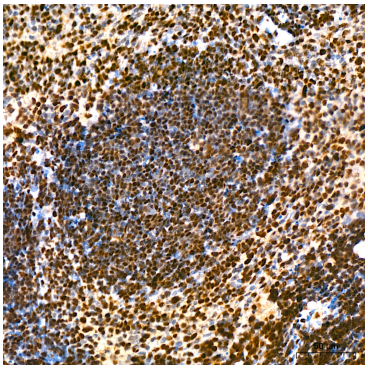
Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded human liver tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



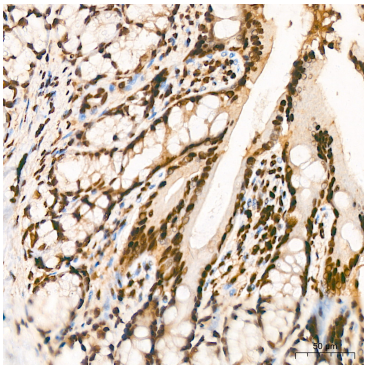
Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded human thyroid cancer tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



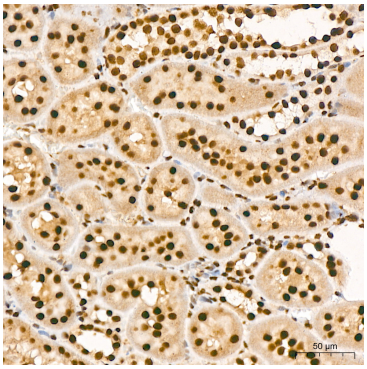
Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded mouse intestin tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



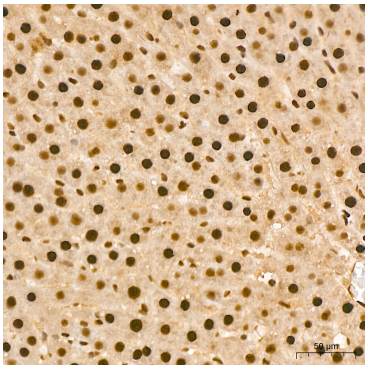
Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded mouse spleen tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded rat colon tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded rat kidney tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Importin Alpha 5/KPNA1 in paraffin-embedded rat liver tissue using Importin Alpha 5/KPNA1 Rabbit mAb (A24117) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.