Product Datasheet

KPNA2 Rabbit mAb

Catalog No: #49651

Package Size: #49651-1 50ul #49651-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

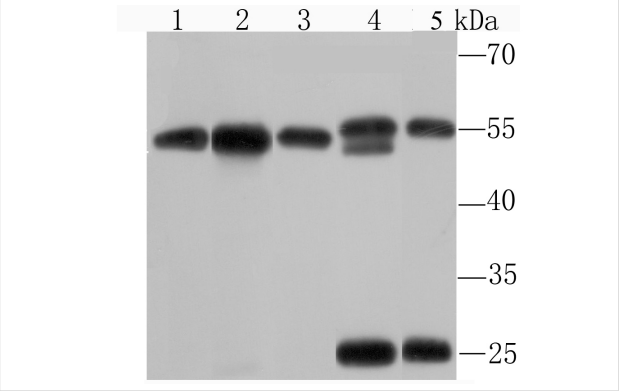
Description

Product Name	KPNA2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Purification	ProA affinity purified
Applications	WB, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	IMA1_HUMAN antibody Importin alpha 1 antibody Importin alpha 2 antibody Importin alpha 2 subunit antibody Importin alpha P1 antibody Importin subunit alpha-1 antibody IPO A1 antibody IPOA 1 antibody IPOA1 antibody Karyopherin alpha 2 antibody Karyopherin alpha 2 RAG cohort 1 antibody Karyopherin alpha 2 subunit antibody Karyopherin subunit alpha-2 antibody KPNA2 antibody KPNA2 protein antibody Pendulin antibody QIP 2 antibody QIP2 antibody RAG cohort 1 antibody RAG cohort protein 1 antibody RCH 1 antibody RCH1 antibody SRP 1 antibody SRP1 alpha antibody SRP1 antibody SRP1-alpha antibody SRP1alpha antibody
Accession No.	Swiss-Prot#:P52292
Uniprot	P52292
GeneID	3838;
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

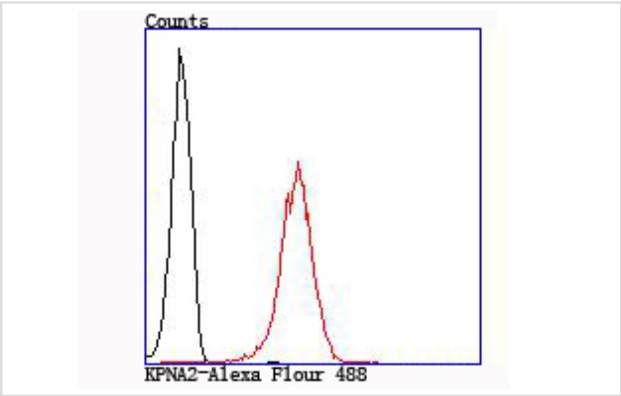
Application Details

WB: 1:500-1:2,000FC: 1:50-1:100

Images



Western blot analysis of KPNA2 on different cell lysates using anti-KPNA2 antibody at 1/1,000 dilution. Postive control: Lane 1: Hela Lane 2: 293T Lane 3: HepG2 Lane 4: NIH-3T3 Lane 5: PC-12



Flow cytometric analysis of 293T cells with KPNA2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Background

Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats 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 importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. 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.

References

Note: This product is for in vitro research use only