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Anti-KPNA3 / IPOA4 Antibody (C-term), Biotinylated

Catalog # AF4278a

Product Information

Application	WB, IHC, IF, ICC, E, IP
Primary Accession	O00505
Other Accession	3839, NP_002258.2, 16648, 361055
Reactivity	Human, Mouse, Rat
Predicted	Human, Mouse, Rat, Dog
Calculated MW	57811

Additional Information

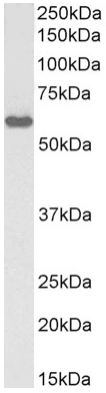
Gene ID	3839
Other Names	protein sorting/ trafficking; transporter; NPC; importin
Dilution	WB~~1:1000 IHC~~1:100~500 IF~~1:50~200 ICC~~N/A E~~N/A IP~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-KPNA3 / IPOA4 Antibody (C-term), Biotinylated is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KPNA3
Synonyms	QIP2
Function	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. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS. Recognizes NLSs of influenza A virus nucleoprotein probably through ARM repeats 7-9.

Cellular Location	Cytoplasm. Nucleus
Tissue Location	Ubiquitous. Highest levels in heart and skeletal muscle

Images



Biotinylated antibody (1 µg/ml) staining of Rat Testis lysate (35 µg protein in RIPA buffer), exactly mirroring its parental non-biotinylated product. Primary incubation was 1 hour. Detected by chemiluminescence, using streptavidin-HRP and using NAP blocker as a substitute for skimmed milk.