10320 Camino Santa Fe, Suite G
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Anti-KPNA3 / IPOA4 Antibody (C-term), Biotinylated

Catalog # AF4278a

Specification

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

Application	**WB**
Primary Accession	O00505
Other Accession	3839, NP_002258.2, 16648, 361055
Reactivity	**Human, Mouse, Rat**
Predicted	**Human, Mouse, Rat, Cow, Dog**
Calculated MW	**57811**

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

Gene ID 3839

Other Names
protein sorting/ trafficking; transporter; NPC; importin

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.

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

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Cytoplasm. Nucleus

Tissue Location
Ubiquitous. Highest levels in heart and skeletal muscle

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

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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