

KPNA3 / Importin Alpha 4 Antibody (C-Terminus)

Goat Polyclonal Antibody Catalog # ALS12202

Specification

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - Product Information

Application IHC
Primary Accession 000505

Reactivity Human, Mouse, Rat, Rabbit, Hamster,

Monkey, Pig, Chicken, Horse, Bovine, Dog

Host Goat
Clonality Polyclonal
Calculated MW 58kDa KDa

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - Additional Information

Gene ID 3839

Other Names

Importin subunit alpha-4, Importin alpha Q2, Qip2, Karyopherin subunit alpha-3, SRP1-gamma, KPNA3, QIP2

Target/Specificity

Human KPNA3.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - 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

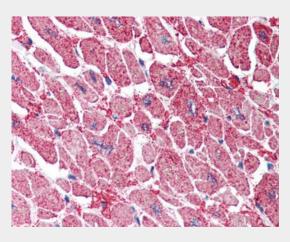
Ubiquitous. Highest levels in heart and skeletal muscle

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - Images



Anti-KPNA3 antibody IHC of human heart.

KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - Background

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KPNA3 / Importin Alpha 4 Antibody (C-Terminus) - References





Takeda S.,et al.Cytogenet. Cell Genet. 76:87-93(1997). Koehler M.,et al.FEBS Lett. 417:104-108(1997). Nachury M.V.,et al.Proc. Natl. Acad. Sci. U.S.A. 95:582-587(1998). Fischer R.,et al.Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases. Ota T.,et al.Nat. Genet. 36:40-45(2004).