abcam

Product datasheet

Anti-KPNA3 antibody ab84706

1 References 4 图像

概述

产品名称	Anti-KPNA3抗体
描述	**兔多克隆抗体**to KPNA3
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, IHC-P
种属反应性	**与反应:** Mouse, Human **预测可用于:** Chimpanzee, Rhesus monkey
免疫原	Synthetic peptide corresponding to Human KPNA3 aa 1-100 (N terminal). Database link: **IHC-00320**
阳性对照	IHC-P: Human testis, ovarian carcinoma. Mouse teratoma. ICC: Human colon carcinoma,
常规说明	Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab84706于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		
IHC-P		

应用说明

ICC/IF: 1/100.
IHC-P: 1/100 - 1/500. Epitope exposure is recommended. Epitope exposure with citrate buffer will enhance staining.

Likely to work with frozen sections.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

靶标

功能

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.

组织特异性

Ubiquitous. Highest levels in heart and skeletal muscle.

序列相似性

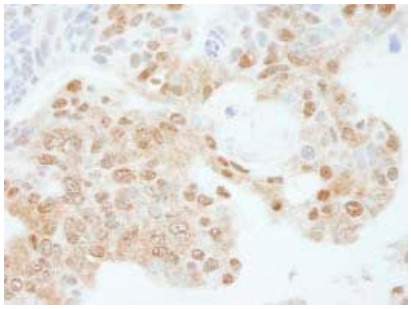
Belongs to the importin alpha family.
Contains 10 ARM repeats.
Contains 1 IBB domain.

结构域

Consists of an N-terminal hydrophilic region, a hydrophobic central region composed of 10 repeats, and a short hydrophilic C-terminus. The N-terminal hydrophilic region contains the importin beta binding domain (IBB domain), which is sufficient for binding importin beta and essential for nuclear protein import.
The IBB domain is thought to act as an intrasteric autoregulatory sequence by interacting with the internal autoinhibitory NLS. Binding of KPNB1 probably overlaps the internal NLS and contributes to a high affinity for cytoplasmic NLS-containing cargo substrates. After dissociation of the importin/substrate complex in the nucleus the internal autohibitory NLS contributes to a low affinity for nuclear NLS-containing proteins.
The major and minor NLS binding sites are mainly involved in recognition of simple or bipartite NLS motifs. Structurally located within in a helical surface groove they contain several conserved Trp and Asn residues of the corresponding third helices (H3) of ARM repeats which mainly contribute to binding.

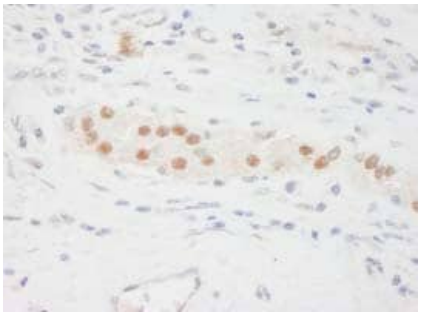
细胞定位 Cytoplasm. Nucleus.

图片



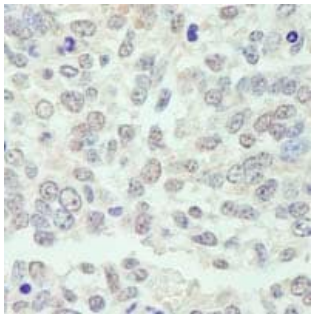
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KPNA3 antibody (ab84706)

Detection of Human KPNA3 by Immunohistochemistry. Sample: FFPE section of Human ovarian carcinoma. Antibody: ab84706 used at a dilution of 1/250.Detection: DAB staining.



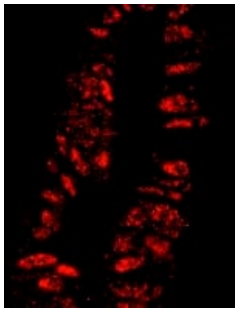
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KPNA3 antibody (ab84706)

Detection of Human KPNA3 by Immunohistochemistry. Sample: FFPE section of Human testis. Antibody: ab84706 used at a dilution of 1/500.Detection: DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KPNA3 antibody (ab84706)

Detection of Mouse KPNA3 by Immunohistochemistry. Sample: FFPE section of Mouse teratoma. Antibody: ab84706 used at a dilution of 1/250.Detection: DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-KPNA3 antibody (ab84706)

Detection of Human KPNA3. Sample: FFPE section of Human colon carcinoma. Antibody: ab84706 used at a dilution of 1/100.Detection: Red-fluorescent goat anti-rabbit IgG highly cross-adsorbed Antibody Hilyte PlusTM 555 used at a dilution of 1/100.

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