abcam

Product datasheet

Anti-KPNA5 antibody - N-terminal ab189987

画像数 4

製品の概要

製品名	Anti-KPNA5 antibody - N-terminal
製品の詳細	Rabbit polyclonal to KPNA5 - N-terminal
由来種	Rabbit
アプリケーション	**適用あり:** ICC, WB, IHC-P, ICC/IF
種交差性	**交差種:** Mouse, Human
免疫原	Synthetic peptide within Human KPNA5 (N terminal). The exact sequence is proprietary. (18 amino acid peptide near the amino terminus). Database link: **O15131**
ポジティブ・コントロール	Human brain cortex tissue; EL4 cells; EL4 cell lysate.
特記事項	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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: 99% PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** **次のテスト済みアプリケーションにおけるab189987の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 58 kDa.
IHC-P		Use a concentration of 5 µg/ml.
ICC/IF		Use a concentration of 5 - 20 µg/ml.

ターゲット情報

機能

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. Mediates nuclear import of STAT1 homodimers and STAT1/STAT2 heterodimers by recognizing non-classical NLSs of STAT1 and STAT2 through ARM repeats 8-9. Recognizes influenza A virus nucleoprotein through ARM repeat 7-9 In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.

組織特異性

Testis.

配列類似性

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

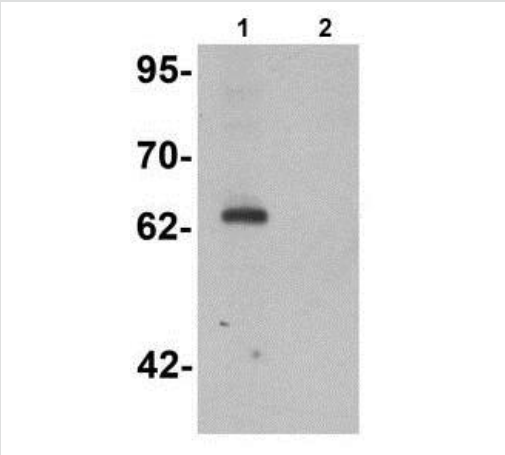
ドメイン

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.

細胞内局在

Cytoplasm.

画像

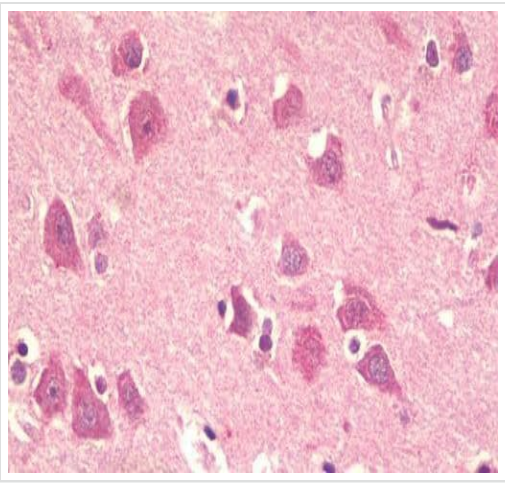


Western blot - Anti-KPNA5 antibody - N-terminal (ab189987)

All lanes : Anti-KPNA5 antibody - N-terminal (ab189987) at 1 µg/ml

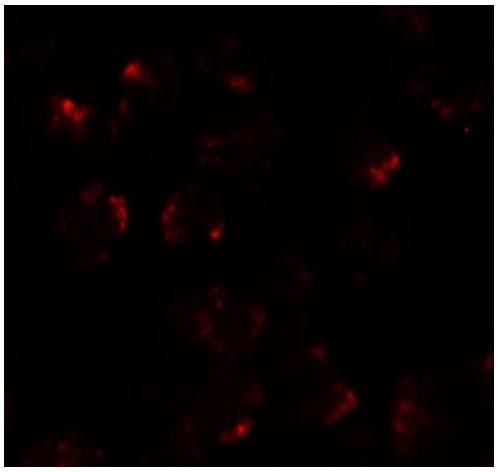
Lane 1 : EL4 cell lysate
Lane 2 : EL4 cell lysate with immunizing peptide

Predicted band size: 58 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KPNA5 antibody - N-terminal (ab189987)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human brain cortex tissue labeling KPNA5 with ab189987 at 5 µg/ml.



Immunocytochemistry/ Immunofluorescence - Anti-KPNA5 antibody - N-terminal (ab189987)

Immunofluorescent analysis of EL4 cells labeling KPNA5 with ab189987 at 20 µg/ml.

Immunocytochemistry - Anti-KPNA5 antibody - N-terminal (ab189987)

Immunocytochemical analysis of EL4 cells labeling KPNA5 with ab189987 at 5 µg/ml.

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