


Anti-KPNA2 antibody ab70160

7 References **画像数 3**

製品の概要

製品名	Anti-KPNA2 antibody
製品の詳細	Rabbit polyclonal to KPNA2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, IP
種交差性	交差種: Mouse, Human 交差が予測される動物種: Chimpanzee, Orangutan 
免疫原	A region between residue 475 and the C-terminus (residue 529) of human KPNA2 (NP_002257.1).
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7 Preservative: 0.09% Sodium azide Constituents: 1.815% Tris, 1.764% Sodium citrate, 0.021% 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ab70160の使用に適用されます

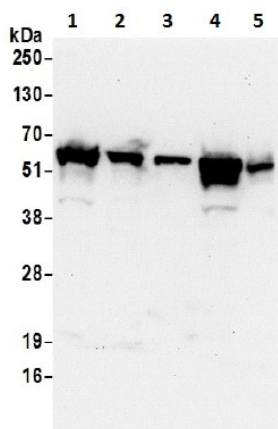
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB		1/10000 - 1/25000. Detects a band of approximately 58 kDa (predicted molecular weight: 58 kDa).
IHC-P		1/1000 - 1/5000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use a concentration of 0.04 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.
組織特異性	Expressed ubiquitously.
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 autoinhibitory 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. Nucleus.

画像



Western blot - Anti-KPNA2 antibody (ab70160)

All lanes : Anti-KPNA2 antibody (ab70160) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

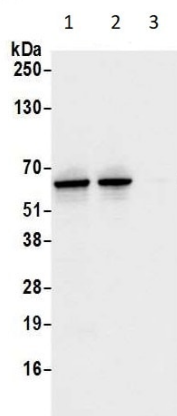
Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

Lane 4 : 293T whole cell lysate at 50 µg

Lane 5 : Mouse NIH3T3 whole cell lysate at 50 µg

Predicted band size: 58 kDa



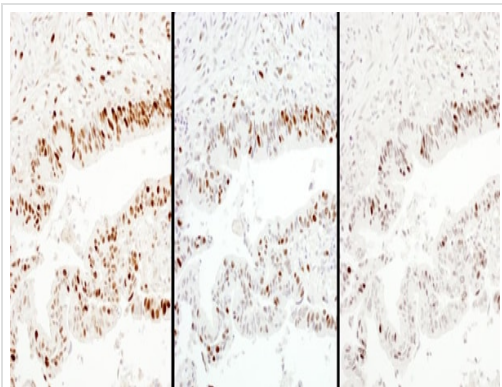
Immunoprecipitation - Anti-KPNA2 antibody
(ab70160)

Immunoprecipitation of KPNA2 with ab70160 at 0.04 µg/mL.

Lane 1 and 2: Different lots of ab70160 + Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293 cells prepared using NETN lysis buffer.

Lane 2: IgG control + Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293 cells prepared using NETN lysis buffer.

Detection: Chemiluminescence



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KPNA2 antibody (ab70160)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon carcinoma tissue labelling KPNA2 with ab70160 at 1/1000 (1µg/ml; left and right) and 1/5000 (0.2µg/ml; middle). Detection: DAB.

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