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EB06233 - Goat Anti-KPNA2 / IPOA1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: KPNA2, IPOA1, RCH1, SRP1alpha, karyopherin alpha 2 (RAG cohort 1, importin alpha 1), RAG cohort 1, importin alpha 1, importin alpha 2, importin-alpha-P1, karyopherin subunit alpha-2, pendulin, importin subunit alpha-2, QIP2, RAG cohort protein 1, SRP1-alpha
Official Symbol: KPNA2
Accession Number(s): NP_002257.1
Human GeneID(s): 3838
Non-Human GeneID(s): 16647 (mouse), 85245 (rat)

Immunogen

Peptide with sequence C-QVQDGAPGTFNF, from the C Terminus of the protein sequence according to NP_002257.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:32000.
Western blot: Approx 55kDa band observed in lysates of cell lines CaCo-2, Jurkat, and KNRK, and approx. 58kDa in lysates of cell lines MCF7 and A549 (calculated MW of 57.9kDa according to Human NP_002257.1 and Rat NP_001257731.1). Recommended concentration 0.03-0.1µg/ml. Primary incubation 1 hour at room temperature.
IHC: Paraffin embedded Human Testis. Recommended concentration: 5µg/ml.

Immunofluorescence: Strong expression of the protein seen in U2OS and A549 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A549 cells. Recommended concentration: 10ug/ml.

Species Reactivity

Tested: Human, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog

Specific References

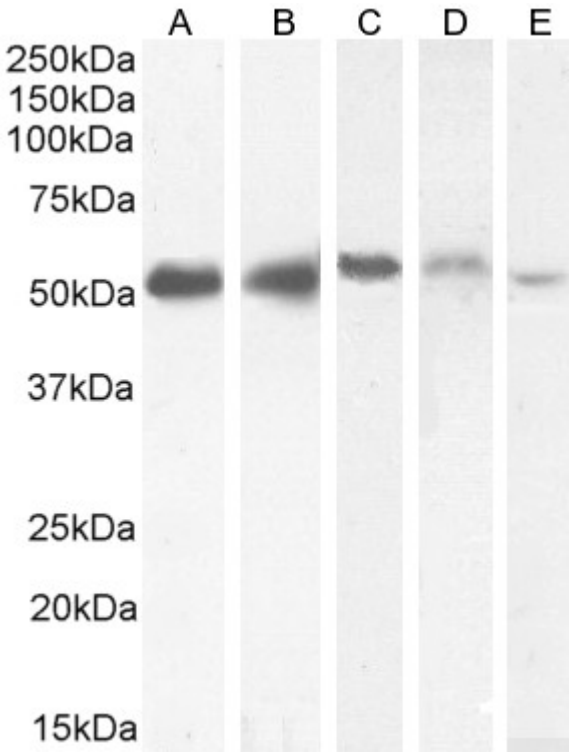
This antibody has been successfully used in WB on Human:
Helen Hoffmeister, Simon Holzinger, Marie-Sofie Dürr, Astrid Bruckmann, Susanne Schindler, Regina Gröbner-Ferreira, Reinhard Depping and Gernot Längst
Characterization of the nuclear import of the human CHD4-NuRD complex.
Cell Sci. 2023 Apr 1;136(7):jcs260724.
PMID: 36861403

This antibody has been successfully used in the following paper:
Fujimoto H, Ikuta T, Koike A and Koike M
Acetylation of nuclear localization signal controls importin-mediated nuclear transport of

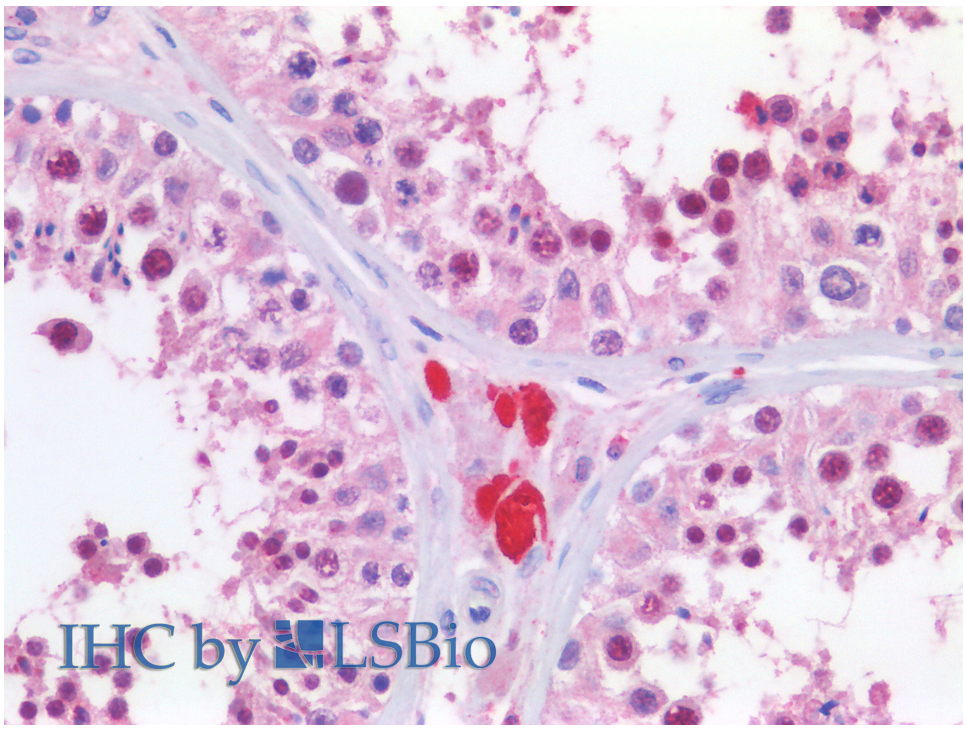
Ku70
https://doi.org/10.1101/403485 (August 29, 2018)
PMID: 1

This antibody (previous batch) has been successfully used in Western blot on Mouse:

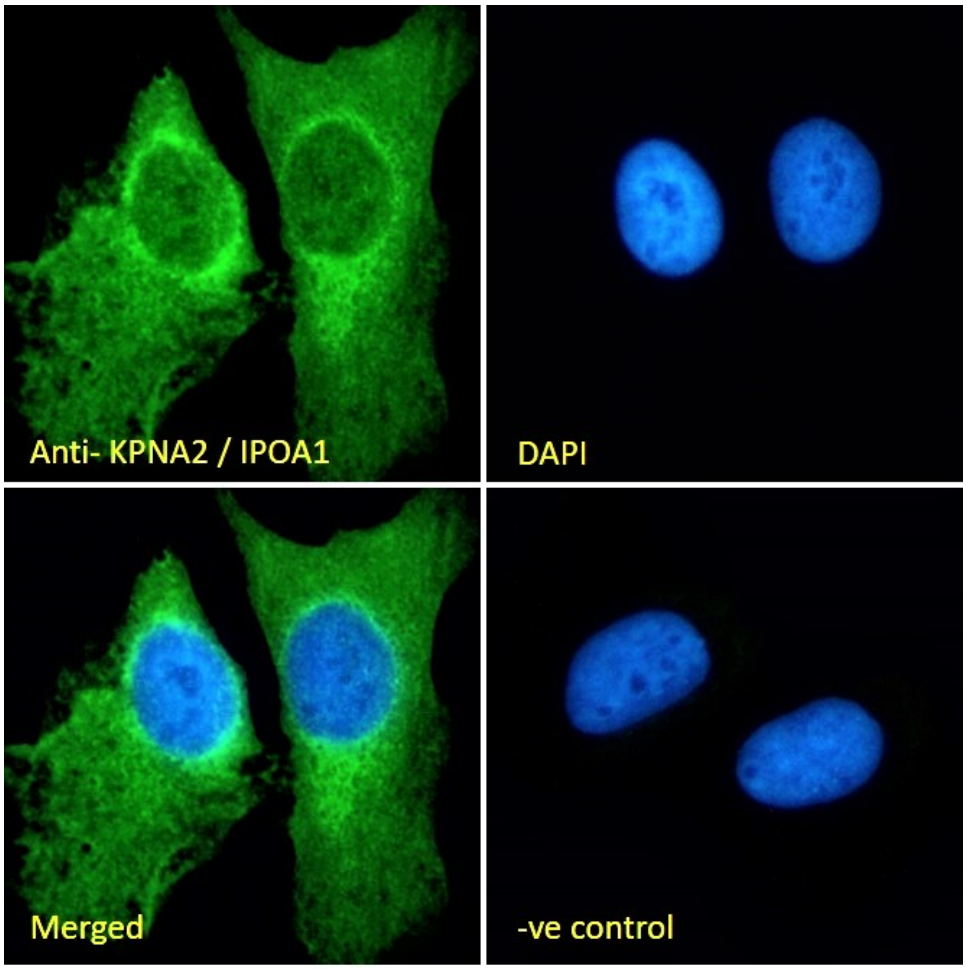
Ma KL, Song LK, Yuan YH, Zhang Y, Han N, Gao K, Chen NH
The nuclear accumulation of alpha-synuclein is mediated by importin alpha and promotes neurotoxi
Neuropharmacology. 2014 Jul;82:132-42
PMID: 23973294



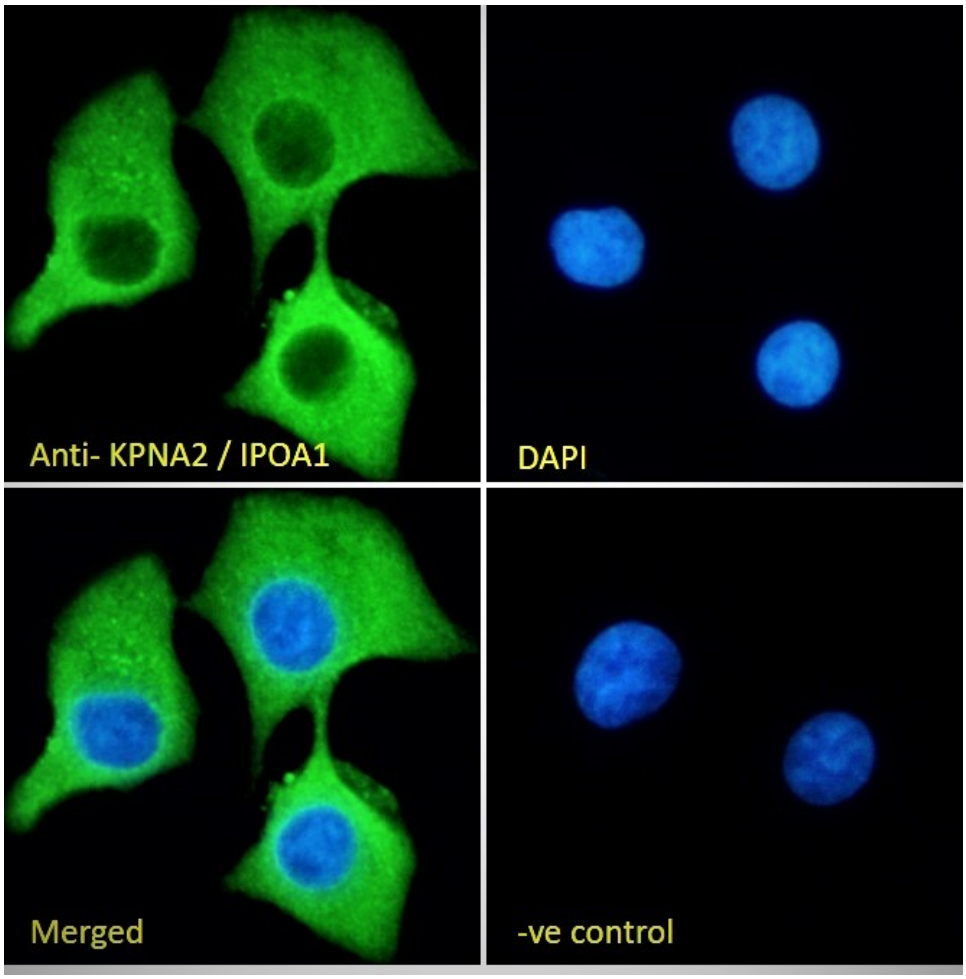
EB06233 (0.1µg/ml) staining of Jurkat (A) and CaCo-2 (B) and (0.03ug/ml) A549 (C), MCF7 (D) and KNRK (E) cell lysate. (35µg protein in RIPA buffer). Detected by chemiluminescence.



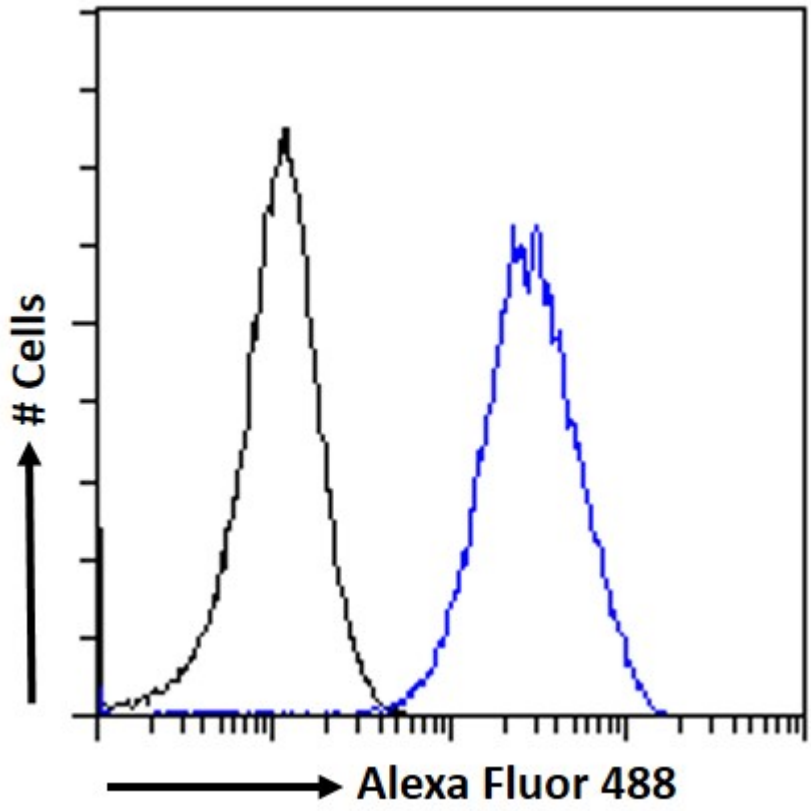
EB06233 (5µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06233 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and ER/Golgi staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06233 Immunofluorescence analysis of paraformaldehyde fixed A549 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06233 Flow cytometric analysis of paraformaldehyde fixed A549 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.