

Datasheet for 600-401-CG1**KPNA3 Antibody****Overview**

Description:	Anti-KPNA3 (RABBIT) Antibody - 600-401-CG1
Item No.:	600-401-CG1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Karyopherin, a cytosolic and heterodimeric protein complex consisting of alpha and beta subunits, is responsible for targeting proteins with nuclear localization signals to the nuclear pore complex by an energy requiring, Ran-dependent mechanism. The alpha subunit and imported substrate enter the nucleus and accumulate in the nucleoplasm, while the beta subunit accumulates at the NPC. KPNA3, the alpha subunit 3 of karyopherin, is similar to human KPNA2, suggesting that KPNA3 may be involved in the nuclear transport system. It is ubiquitously expressed and recent studies have shown that human KPNA3 may be associated with schizophrenia.
Synonyms:	KPNA3 Antibody, SRP1, SRP4, IPOA4, hSRP1, SRP1gamma, QIP2, Importin subunit alpha-4, Importin alpha Q2, Qip2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KPNA3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-KPNA3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide near the carboxy end of human KPNA3.

Purity/Specificity: Anti-KPNA3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with KPNA3 from other sources has not been determined.

Relevant Links:

- [UniProtKB - O00505](#)
- [GeneID - 3839](#)
- [NCBI - NP_002258](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-KPNA3 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 58 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

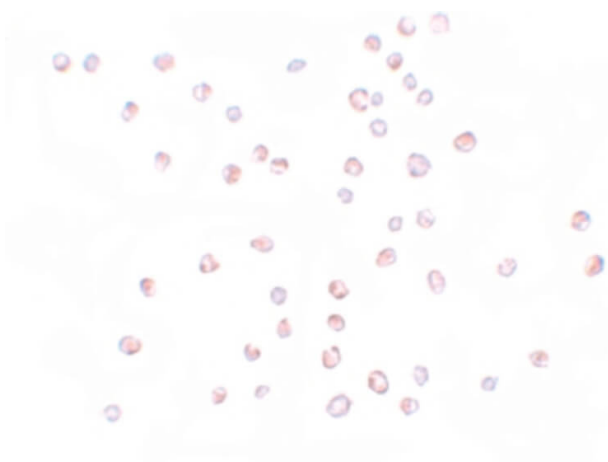
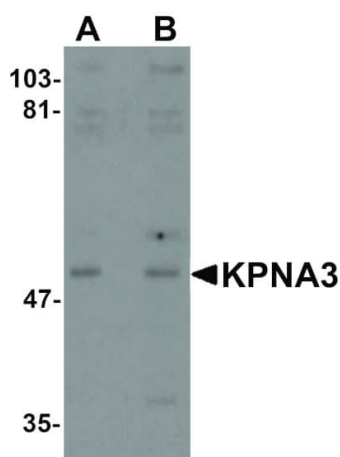
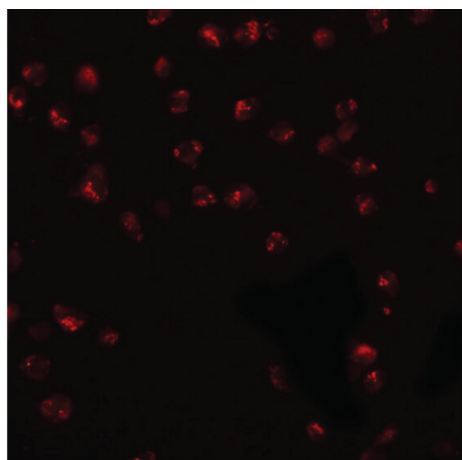
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of KPNA3 antibody.
 Tissue: EL4 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: KPNA3 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: KPNA3 is nuclear and cytoplasmic. Staining: KPNA3 as red fluorescent signal.

Western Blot

Western Blot of KPNA3 antibody. Lane 1: EL4 cell lysate with KPNA3 antibody at 1 µg/mL. Lane 2: EL4 cell lysate with KPNA3 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 58 kDa, 55 kDa for KPNA3. Other band(s): KPNA3 splice variants and isoforms.

Immunohistochemistry

Immunocytochemistry of KPNA3 antibody. Tissue: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: KPNA3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: KPNA3 is nuclear and cytoplasmic. Staining: KPNA3 as precipitated blue signal with pink nuclear counterstain.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.