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Datasheet for 600-401-CG0

KPNA2 Antibody

Overview

Description:	Anti-KPNA2 (RABBIT) Antibody - 600-401-CG0
Item No.:	600-401-CG0
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. KPNA2 is the alpha subunit 2 of karyopherin, which forms a complex with importin subunit beta-1 and functions as a cargo carrier that transports various complexes from cytoplasm into nucleus. It is ubiquitously expressed and contains an IBB/importin beta domain, ten Armadillo repeats that bind "cargo" and three intervening nuclear localization sequences (NLSs). It has recently been reported to play an important role in tumorigenesis and tumor progression.
Synonyms:	KPNA2 Antibody, QIP2, RCH1, IPOA1, SRP1alpha, SRP1, Importin subunit alpha-1, Karyopherin subunit alpha-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KPNA2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-KPNA2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of human KPNA2.
Purity/Specificity:	Anti-KPNA2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with KPNA2 from other sources has not been determined.
Relevant Links:	• UniProtKB - P52292 • GeneID - 3838 • NCBI - NP_002257

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-KPNA2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry 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
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

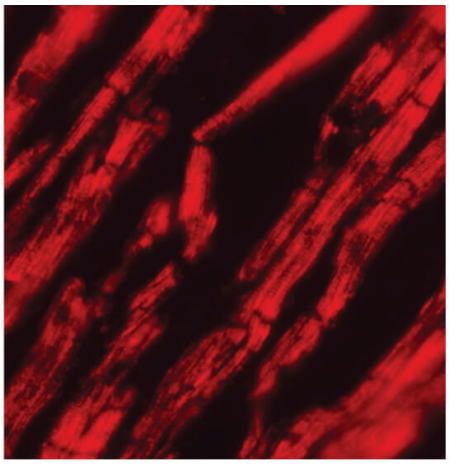
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

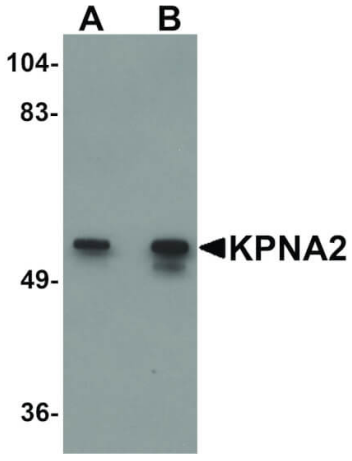
Shipping Condition:	Dry Ice

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.

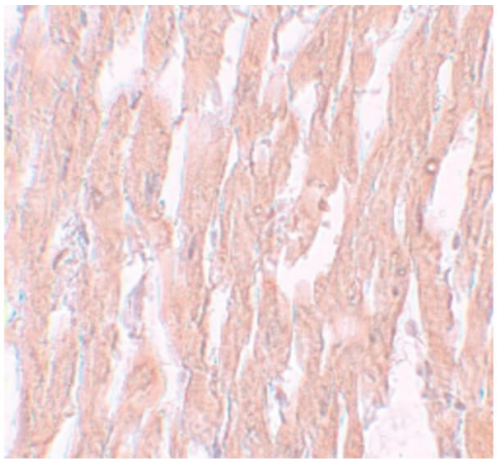
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of KPNA2 antibody. Tissue: Human heart tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: KPNA2 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: KPNA2 is nuclear and cytoplasmic. Staining: KPNA2 as red fluorescent signal.



Western Blot
Western Blot of KPNA2 antibody. Lane 1: Rat heart tissue lysate with KPNA2 antibody at 1 µg/mL. Lane 2: Rat heart tissue lysate with KPNA2 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, 58 kDa for KPNA2. Other band(s): KPNA2 splice variants and isoforms.



Immunohistochemistry
Immunohistochemistry of KPNA2 antibody. Tissue: Human heart tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: KPNA2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: KPNA2 is nuclear and cytoplasmic. Staining: KPNA2 as precipitated pink signal with blue counterstain.

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