

Datasheet for ABIN2856324
anti-KPNA2 antibody (C-Term)

3 Images

1 Publication

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Overview

Quantity:	100 µL
Target:	KPNA2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KPNA2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human karyopherin alpha 2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Rhesus Monkey, Chimpanzee
Cross-Reactivity (Details):	Mouse (100 %), Rat (100 %), Rhesus Monkey (92 %), Chimpanzee (100 %)
Characteristics:	Rabbit polyclonal antibody to karyopherin alpha 2 (karyopherin alpha 2 (RAG cohort 1, importin alpha 1)) karyopherin alpha 2 antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	KPNA2
Alternative Name:	Karyopherin alpha 2 (KPNA2 Products)
Background:	<p>The import of proteins into the nucleus is a process that involves at least 2 steps. The first is an energy-independent docking of the protein to the nuclear envelope and the second is an energy-dependent translocation through the nuclear pore complex. Imported proteins require a nuclear localization sequence (NLS) which generally consists of a short region of basic amino acids or 2 such regions spaced about 10 amino acids apart. Proteins involved in the first step of nuclear import have been identified in different systems. These include the Xenopus protein importin and its yeast homolog, SRP1 (a suppressor of certain temperature-sensitive mutations of RNA polymerase I in <i>Saccharomyces cerevisiae</i>), which bind to the NLS. KPNA2 protein interacts with the NLSs of DNA helicase Q1 and SV40 T antigen and may be involved in the nuclear transport of proteins. KPNA2 also may play a role in V(D)J recombination</p> <p>Cellular Localization: Cytoplasm , Nucleus</p>
Molecular Weight:	58 kDa
Gene ID:	3838
Pathways:	M Phase , Protein targeting to Nucleus

Application Details

Application Notes:	<p>Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*</p>
Comment:	Positive Control: 293T , H1299 , HeLaS3 , HepG2 , Molt-4 , Raji
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.71 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.

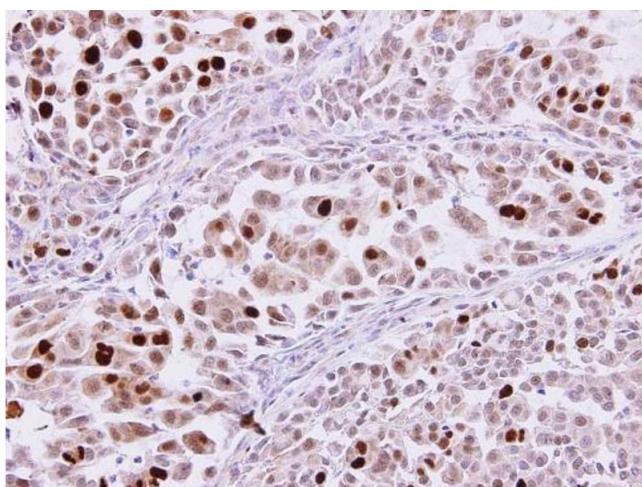
Handling

Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

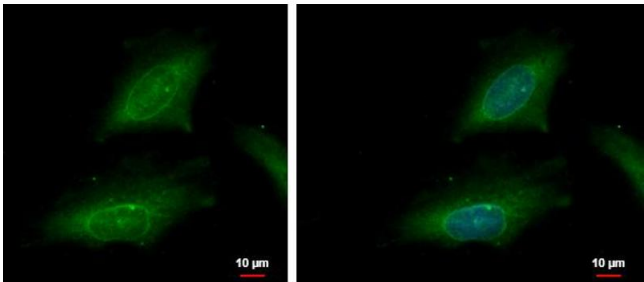
Product cited in:	Miettinen, Felisiak-Golabek, Wasag, Chmara, Wang, Butzow, Lasota: "Fumarase-deficient Uterine Leiomyomas: An Immunohistochemical, Molecular Genetic, and Clinicopathologic Study of 86 Cases." in: The American journal of surgical pathology , Vol. 40, Issue 12, pp. 1661-1669, (2017) (PubMed).
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Images



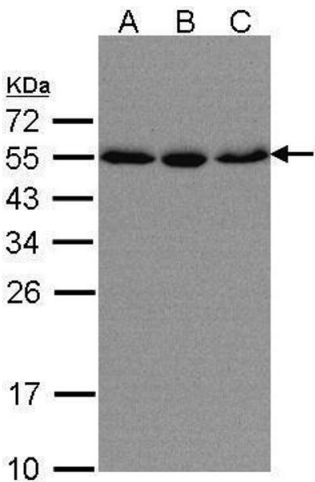
Immunohistochemistry

Image 1. IHC-P Image karyopherin alpha 2 antibody [C3], C-term detects karyopherin alpha 2 protein at nucleus on human lung adenocarcinoma by immunohistochemical analysis. Sample: Paraffin-embedded human lung adenocarcinoma. karyopherin alpha 2 antibody [C3], C-term, diluted at 1:250.



Immunofluorescence

Image 2. ICC/IF Image karyopherin alpha 2 antibody [C3], C-term detects karyopherin alpha 2 protein at cytoplasm and nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in ice-cold MeOH for 5 min. Green: karyopherin alpha 2 protein stained by karyopherin alpha 2 antibody [C3], C-term , diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



Western Blotting

Image 3. WB Image Sample(30 µg of whole cell lysate) A:HeLa S3, B:Hep G2, C:MOLT4, 10% SDS PAGE antibody diluted at 1:500