

## ARG55274 anti-KPNA4 / IPOA3 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes KPNA4 / IPOA3
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KPNA4 / IPOA3
Species	Human
Immunogen	Synthetic peptide (15 aa) within aa. 30-80 of Human KPNA4.
Conjugation	Un-conjugated
Alternate Names	SRP3; Importin subunit alpha-3; Qip1; Karyopherin subunit alpha-4; IPOA3; QIP1; Importin alpha Q1

### Application Instructions

Application table	Application	Dilution
	ICC/IF	2.5 - 20 µg/ml
	WB	1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human Liver Tissue Lysate	

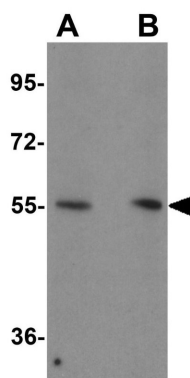
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

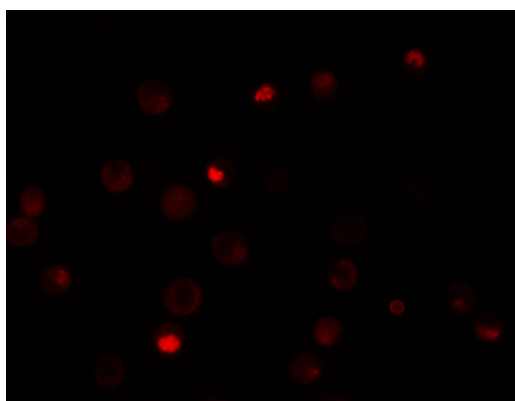
Database links	<a href="#">GeneID: 3840 Human</a> <a href="#">Swiss-port # O00629 Human</a>
Gene Symbol	KPNA4
Gene Full Name	karyopherin alpha 4 (importin alpha 3)
Background	The nuclear import of karyophilic proteins is directed by short amino acid sequences termed nuclear localization signals (NLSs). Karyopherins, or importins, are cytoplasmic proteins that recognize NLSs and dock NLS-containing proteins to the nuclear pore complex. The protein encoded by this gene shares the sequence similarity with <i>Xenopus</i> importin-alpha and <i>Saccharomyces cerevisiae</i> Srp1. This protein is found to interact with the NLSs of DNA helicase Q1 and SV40 T antigen. [provided by RefSeq, Jul 2008]
Function	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. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS. [UniProt]
Research Area	Signaling Transduction antibody
Calculated Mw	58 kDa

## Images



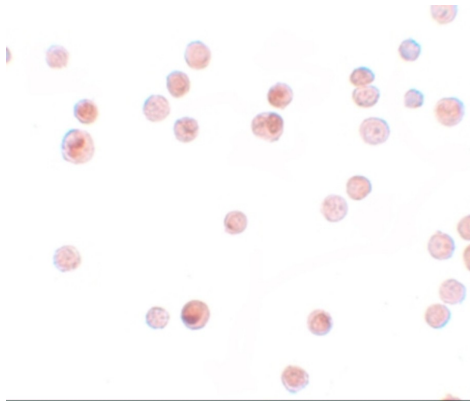
ARG55274 anti-KPNA4 / IPOA3 antibody WB image

Western blot: HeLa cell lysate stained with ARG55274 anti-KPNA4 / IPOA3 antibody at (A) 0.5 and (B) 1 µg/ml dilution.



ARG55274 anti-KPNA4 / IPOA3 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG55274 anti-KPNA4 / IPOA3 antibody at 20 µg/ml dilution.



ARG55274 anti-KPNA4 / IPOA3 antibody ICC/IF image

Immunocytochemistry: HeLa cells stained with ARG55274 anti-KPNA4 / IPOA3 antibody at 2.5 µg/ml dilution.