

For Research Use Only

KPNA4 Recombinant antibody

Catalog Number: 82898-2-RR

Featured Product



Basic Information

Catalog Number: 82898-2-RR	GenBank Accession Number: BC034493	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3840	CloneNo.: 230098H1
Source: Rabbit	UNIPROT ID: O00629	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: karyopherin alpha 4 (importin alpha 3)	
Immunogen Catalog Number: AG3133	Calculated MW: 521 aa, 58 kDa	
	Observed MW: 58 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HeLa cells, A549 cells, Jurkat cells, NIH/3T3 cells, mouse ovary tissue, mouse testis tissue, rat testis tissue IHC : human intrahepatic cholangiocarcinoma tissue, IF/ICC : U2OS cells,
Species Specificity: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

KPNA4, also named importin subunit alpha-3, karyopherin-alpha4, is a cytoplasmic protein that recognizes nuclear localization signals (NLSs) and dock NLS-containing proteins to the nuclear pore complex. Nuclear import, mediated in part by karyopherin- α (KPNA)/importin- α subtypes, regulates transcription factor access to the genome and determines cell fate. KPNA4-mediated nuclear transport of Ras-responsive element-binding protein (RREB1), which sustains Ras/ERK pathway signaling through repressing miR-143/145 expression (PMID: 31822798). KPNA4 is one of the main isoforms that is activated in many human cancers. KPNA4 expression was elevated in head and neck of squamous cell carcinoma (PMID: 33188837).

Storage

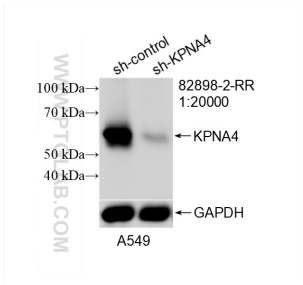
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

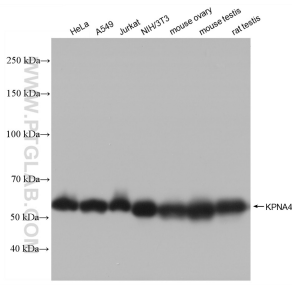
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

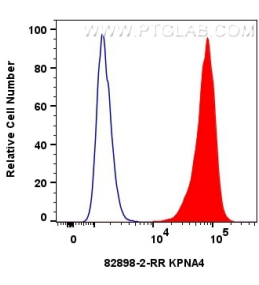
Selected Validation Data



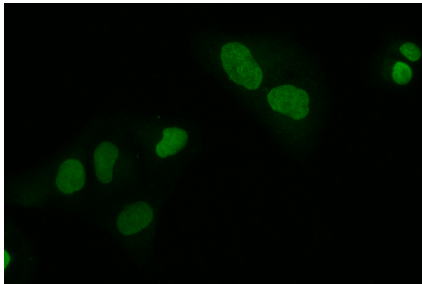
WB result of KPNA4 antibody (82898-2-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-KPNA4 transfected A549 cells.



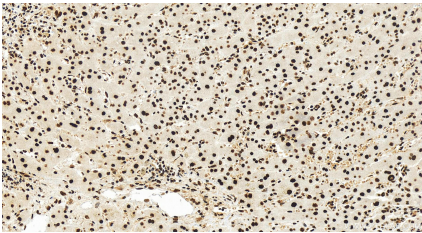
Various lysates were subjected to SDS PAGE followed by western blot with 82898-2-RR (KPNA4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



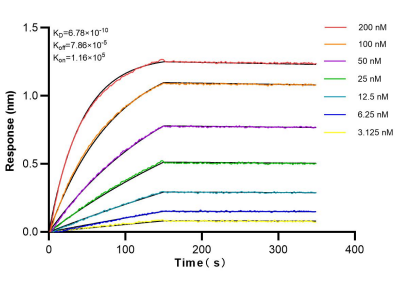
1x10⁶ A549 cells were intracellularly stained with 0.25 ug KPNA4 Recombinant antibody (82898-2-RR, Clone:230098H1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using KPNA4 antibody (82898-2-RR, Clone: 230098H1) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82898-2-RR (KPNA4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82898-2-RR against Human KPNA4 were performed. The affinity constant is 0.678 nM.