

For Research Use Only

KPNA4 Recombinant antibody

Catalog Number: 82898-2-RR



Basic Information

Catalog Number: 82898-2-RR	GenBank Accession Number: BC034493	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3840	CloneNo.: 230098H1
Source: Rabbit	UNIPROT ID: O00629	Recommended Dilutions: WB 1:5000-1:50000 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, ELISA, IF/ICC, FC (Inrta)	Positive Controls: WB : HeLa cells, A549 cells, Jurkat cells, NIH/3T3 cells, mouse ovary tissue, mouse testis tissue, rat testis tissue
Species Specificity: Human, mouse, rat	IF/ICC : U2OS cells,

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

For technical support and original validation data for this product please contact:

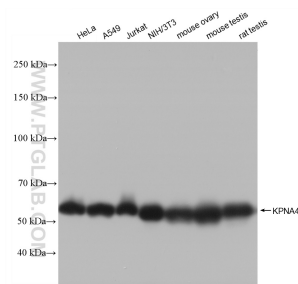
T: 4006900926

E: Proteintech-CN@ptglab.com

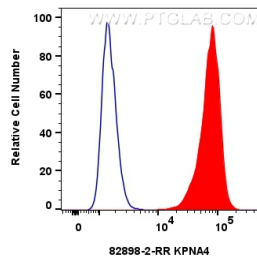
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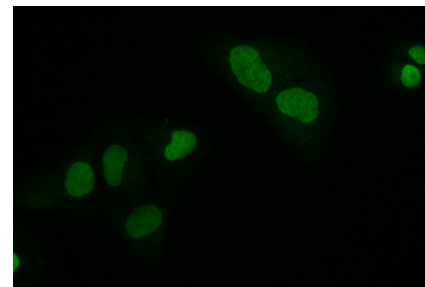
Selected Validation Data



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.



1×10^6 A549 cells were intracellularly stained with 0.25 μ g 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 μ g 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).