For Research Use Only

KPNA3 Polyclonal antibody Catalog Number: 28050-1-AP

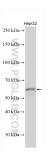


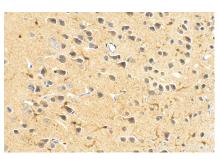
Basic Information	Catalog Number: 28050-1-AP	GenBank Accession Number: BC017355 GeneID (NCBI): 3839 UNIPROT ID: 000505		Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF/ICC 1:200-1:800		
	Concentration: 650 ug/ml Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27755					
					Full Name: karyopherin alpha 3 (importin alpha 4) Calculated MW: 58 kDa	
		Observed MW: 57-60 kDa				
		Applications	Tested Applications:	Tested Applications: Positive Controls:		rols:
			WB, IHC, IF/ICC, ELISA	v	WB : HepG2 cells,	
Species Specificity: human, mouse	H		IHC : mouse brain tissue, human brown disease			
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	KPNA3, karyopherin subunit alpha 3, also known as SRP1 or IPOA4. It is expected to be located in cytoplasm and nucleus, the protein is ubiquitous and highly expressed in heart, skeletal muscle. The calculated molecular weight of KPNA3 is 57 kDa. 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.					

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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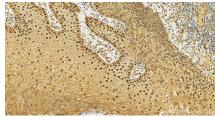
Selected Validation Data



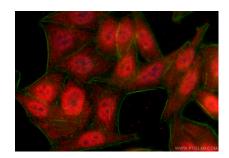


Various lysates were subjected to SDS PAGE followed by western blot with 28050-1-AP (KPNA3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 28050-1-AP (KPNA3 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human brown disease slide using 28050-1-AP (KPNA3 antibody) at dilution of 1:100 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using KPNA3 antibody (28050-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).