For Research Use Only

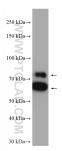
p70(S6K) Polyclonal antibody Catalog Number:14485-1-AP Featured Product 207 P

Featured Product 207 Publications

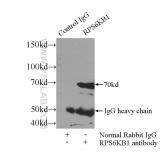


Basic Information	Catalog Number:GenBank Accession Number:14485-1-APBC053365		Purification Method: Antigen affinity purification	
	Size: 150ul, Concentration: 500 ug/ml by Nanodrop; Source:	GeneID (NCBI): 6198 UNIPROT ID: P23443 Full Name: ribosomal protein S6 kinase, 70kDa, polypeptide 1 Calculated MW: 59 kDa		Recommended Dilutions: WB: 1:2000-1:8000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500 IF/ICC: 1:50-1:500
	Rabbit Isotype: IgG			
	Immunogen Catalog Number: AG5883			
		Observed MW: 65-75 kDa, 80-85 k	Dbserved MW: 55-75 kDa, 80-85 kDa	
Applications	Tested Applications:	Positive Cont		rols:
	Cited Applications: cells, NIH/3		cells, NIH/3T3	cells, IGF-1 treated MCF-7 cells, Jurkat 5 cells, HeLa cells, PC-12 cells, C6 cells, issue, rat brain tissue
			IP: HeLa cells	
	human, mouse, rat			, iver cancer tissue,
	Cited Species: human, mouse, rat, pig, rabbit, megalobrama amblycephala			
	Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	RPS6KB1(Ribosomal protein S6 kinase beta-1) is also named as STK14A, p70 S6KA, and belongs to the S6 kinase subfamily. RPS6KB1 is a major substrate of mTOR and acts as a crucial effector of mTOR signaling pathway. It plays a key role in cell growth and proliferation by regulating INS sensitivity, metabolism, protein synthesis, and cell cycle. RPS6KB1 may play an important role in the progression of HCC and could serve as a potential molecular target for HCC therapy (PMID:22684641). The Rps6kb1 gene encodes the 70 kDa ribosomal protein S6 kinase (p70S6K). The PI3K/mTOR signalling pathway is one of the major mechanisms for controlling cell survival, proliferation, and metabolism and is the central regulator of translation of some components of the protein synthesis system. Due to alternative translation, two isoform S6K1 proteins are known to exist in mammalian cells: p85 S6K1 and p70 S6K1, which is identical to p85 S6K but lacks its first 23 amino acids. In addition, mammalian cells express a second S6K1 isoform spanning 316 amino acids (p31 S6K1).			
Notable Publications	Author Pu	bmed ID Jou	ırnal	Application
	Jing Chen 34	.650978 Fro	ont Cell Dev Biol	WB
	Yancun Yin 30	310320 Ca	ncer Manag Res	WB
	Genquan Yue 31	702026 Mc	l Med Rep	WB
Storage	Storage: Store at -20°C. Stable for one year af Storage Buffer: PBS with 0.02% sodium azide and 50	0% glycerol, pH7.3		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	storage		
For technical support and original validation da	ata for this product please contact: 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



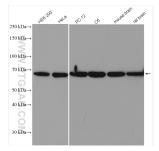
MCF-7 cells were subjected to SDS PAGE followed by western blot with 14485-1-AP (p70(S6K) antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



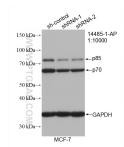
IP result of anti-p70(S6K) (IP:14485-1-AP, 3ug; Detection:14485-1-AP 1:1000) with HeLa cells lysate 3000ug.



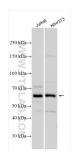
Immunofluorescent analysis of HepG2 cells using 14485-1-AP (p70S6K antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



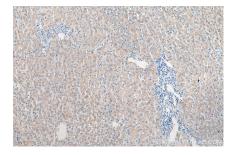
Various lysates were subjected to SDS PAGE followed by western blot with 14485-1-AP (p70(S6K) antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of p70(S6K) antibody (14485-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-p70(S6K) transfected MCF-7 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 14485-1-AP (p70(S6K) antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.





Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 14485-1-AP (p70(S6K) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using p70(S6K) antibody (14485-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).