## For Research Use Only

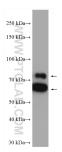
## p70(S6K) Polyclonal antibody Catalog Number:14485-1-AP Featured Product 196 P

Featured Product 196 Publications

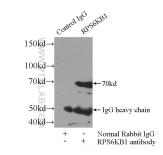


Basic Information	Catalog Number: 14485-1-AP	GenBank Accession BC053365	Number:	Purification Method: Antigen affinity purification	
	Concentration:	GeneID (NCBI):		Recommended Dilutions:	
	500 ug/ml	6198		WB: 1:2000-1:8000	
	Source: Rabbit	UNIPROT ID: P23443		IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500	
	Isotype:	Full Name:			
	IgG Immunogen Catalog Number: AG5883	ribosomal protein S6 kinase, 70kDa, polypeptide 1		IF/ICC: 1:50-1:500	
		Calculated MW: 59 kDa			
		Observed MW: 65-75 kDa, 80-85 kD	la		
Applications	Tested Applications:		Positive Cont	Positive Controls:	
	Cited Applications:cells, NIH/3WB, IHC, IFmouse brainSpecies Specificity:IP : HeLa cell		WB : HEK-293 cells, IGF-1 treated MCF-7 cells, Jurka		
				T3 cells, HeLa cells, PC-12 cells, C6 cell: 1 tissue, rat brain tissue	
			IP : HeLa cells		
	human, mouse, rat		IHC : human l	iver cancer tissue,	
	Cited Species: human, mouse, rat, pig, rabbit, megalobrama amblycephala		IF/ICC : HepG	2 cells,	
	Note-IHC: suggested antiger TE buffer pH 9.0; (*) Alterno retrieval may be performed buffer pH 6.0	atively, 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 play 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 cell: p85 S6K1 and p70 S6K1, which is identical to p85 S6K but lacks its first 23 amino acids. In addition, mammalian cell express a second S6K1 isoform spanning 316 amino acids (p31 S6K1).				
Notable Publications	Author	Pubmed ID Jou	rnal	Application	
			nt Cell Dev Biol	WB	
		30310320 Car	icer Manag Res	WB	
	Genquan Yue	31702026 Mol	Med Rep	WB	
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol, pH7.3			

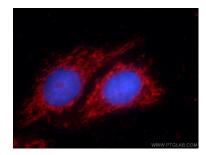
## Selected Validation Data



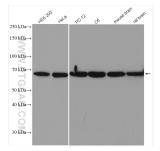
MCF-7 cells were subjected to SDS PAGE followed by western blot with 14485-1-AP (p70(S6K) antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



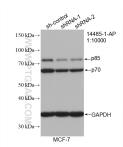
IP result of anti-p70(S6K) (IP:14485-1-AP, 3ug; Detection:14485-1-AP 1:1000) with HeLa cells lysate 3000ug.



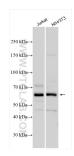
Immunofluorescent analysis of HepG2 cells using 14485-1-AP (p70S6K antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



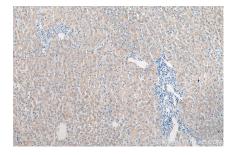
Various lysates were subjected to SDS PAGE followed by western blot with 14485-1-AP (p70(S6K) antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).