

For Research Use Only

p70(S6K) Recombinant monoclonal antibody

Catalog Number: 87391-2-RR



Basic Information

Catalog Number: 87391-2-RR	GenBank Accession Number: BC053365	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6198	CloneNo.: 252761D7
Source: Rabbit	UNIPROT ID: P23443	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: ribosomal protein S6 kinase, 70kDa, polypeptide 1	
Immunogen Catalog Number: AG5883	Calculated MW: 59 kDa	
	Observed MW: 65-75 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : NIH/3T3 cells, PC-12 cells, C6 cells
Species Specificity: human, mouse, rat	

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).

Storage

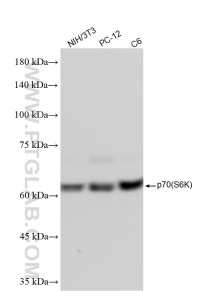
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

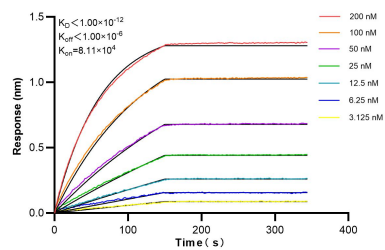
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87391-2-RR (p70(S6K) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87391-2-RR against Human p70(S6K) were performed. The affinity constant is below 1 pM.