## For Research Use Only

## Phospho-mTOR (Ser2481) Polyclonal proteintech® antibody

Catalog Number: 28879-1-AP

2 Publications

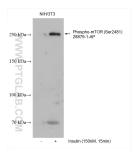
Basic Information	Catalog Number: 28879-1-AP	GenBank Accession Number: BC117166	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI):	Recommended Dilutions:	
	350 μg/ml Source:	2475 UNIPROT ID:	WB 1:500-1:1000	
	Rabbit	P42345		
	lsotype: IgG	Full Name: FK506 binding protein 12-rapamycin associated protein 1		
		Calculated MW: 289 kDa		
		Observed MW: 250-289 kDa		
Applications	Tested Applications: WB, ELISA	Positi	Positive Controls: WB : Insulin treated NIH/3T3 cells,	
	WB, ELISA Cited Applications: WB	WB : I		
	Species Specificity: Mouse			
	Cited Species: mouse			
Background Information	MTOR, also named FRAP1, FRAP, FRAP2, and RAPT1, belongs to the PI3/PI4-kinase family. MTOR is a Ser/Thr protei kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. MTOR is the kinase subunit of both mTORC1 and mTORC2, which regulate cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino acids. mTORC2 is also activated by growth factors but seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulat the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress fibers or F-actin. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481. mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors.			
Notable Publications	Author	Pubmed ID Journal	Application	
	Hefei Wang	37741537 Chem Biol Inte		
	Baomei Xia	33307051 J Ethnopharma	acol WB	
Storage	Storage: Store at -20°C. Stable for or Storage Buffer: PBS with 0.02% sodium az Aliquoting is unnecessary	ide and 50% glycerol pH 7.3.		

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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## Selected Validation Data



Nontreated and insulin-treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 28879-1-AP (Phospho-mTOR (Ser2481) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.