

For Research Use Only

Phospho-mTOR (Ser2448) Polyclonal antibody



Catalog Number: 28881-1-AP

Basic Information

Catalog Number: 28881-1-AP	GenBank Accession Number: BC117166	Purification Method: Antigen affinity purification
Size: 250 µg/ml	GeneID (NCBI): 2475	Recommended Dilutions: WB 1:1000-1:4000
Source: Rabbit	Full Name: FK506 binding protein 12-rapamycin associated protein 1	
Isotype: IgG	Calculated MW: 289 kDa	
	Observed MW: 250-289 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Rapamycin treated HEK-293T cells, MCF-7 cells, Rapamycin treated cells, HEK-293T cells
Species Specificity: Human	

Background Information

mTOR, also named as FRAP1, FRAP, FRAP2 and RAPT1, belongs to the PI3/PI4-kinase family. mTOR is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. mTOR is 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 regulate 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.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

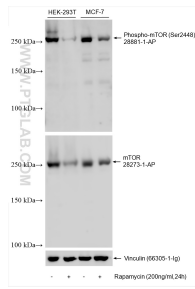
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Selected Validation Data



Non-treated and Rapamycin treated lysates were subjected to SDS PAGE followed by western blot with 28881-1-AP (Phospho-mTOR (Ser2448) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with mTOR antibody (28273-1-AP) and Vinculin (66305-1-ig) subsequently.