For Research Use Only

mTOR Recombinant antibody, PBS Only

Catalog Number:81670-1-PBS

Featured Product

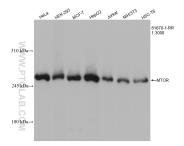


Basic Information	Catalog Number: 81670-1-PBS	GenBank Accession Number: NM_004958	Purification Method: Protein A purification
	Size: 1mg/ml	GeneID (NCBI): 2475	CloneNo.: 6H23
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG28395	Full Name: FK506 binding protein 12-rapamy associated protein 1 Calculated MW: 289 kDa Observed MW: 250-289 kDa	<i>y</i> cin
Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, Indirect ELISA Species Specificity: human, mouse, rat		
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 -80°C. The product is shipped with ice pa Storage Buffer: PBS Only	cks. Upon receipt, store it immediatel	yat-80°C

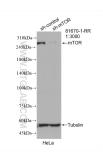
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

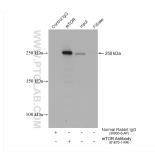
Selected Validation Data



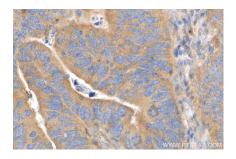
Various lysates were subjected to SDS PAGE followed by western blot with 81670-1-RR (mTOR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81670-1-PBS in a different storage buffer formulation.



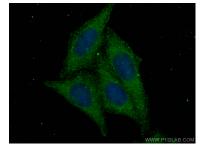
WB result of mTOR antibody (81670-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-mTOR transfected HeLa cells. This data was developed using the same antibody clone with 81670-1-PBS in a different storage buffer formulation.



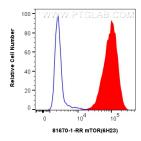
IP result of anti-mTOR (IP:81670-1-RR, 4ug; Detection:81670-1-RR 1:1000) with HeLa cells lysate 1760 ug. This data was developed using the same antibody clone with 81670-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 81670-1-RR (mTOR antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81670-1-PBS in a different storage buffer formulation.

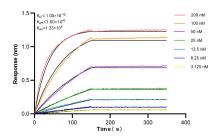


Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using mTOR antibody (81670-1-RR, Clone: 6H23) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 81670-1-PBS in a different storage buffer formulation.



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1x10^6 HeLa cells were intracellularly stained with 0.25 ug mTOR Recombinant antibody (81670-1-RR, Clone:6H23) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 81670-1-PBS in a



Biolayer interferometry (BLI) kinetic assays of 81670-1-RR against Human mTOR were performed. The affinity constant is below 1 pM.