

À des fins de recherche uniquement

# Anticorps Recombinant de lapin anti-mTOR



Numéro de catalogue: 81670-1-RR

Phare

## Informations de base

|                                                            |                                                                            |                                                                                                |
|------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Numéro de catalogue:<br>81670-1-RR                         | Numéro d'acquisition GenBank:<br>NM_004958                                 | Méthode de purification:<br>Purification par protéine A                                        |
| Taille:<br>100ul, Concentration: 300 µg/ml by<br>Nanodrop; | Identification du gène (NCBI):<br>2475                                     | CloneNo.:<br>6H23                                                                              |
| Hôte:<br>Lapin                                             | Nom complet:<br>FK506 binding protein 12-rapamycin<br>associated protein 1 | Dilutions recommandées:<br>WB 1:1000-1:6000<br>IP 0.5-4.0 ug for IP and 1:500-1:2000<br>for WB |
| Isotype:<br>IgG                                            | MW calculé:<br>289 kDa                                                     | IHC 1:50-1:500<br>IF 1:50-1:500                                                                |
| Immunogen Catalog Number:<br>AG28395                       | MW observés:<br>250-289 kDa                                                |                                                                                                |

## Applications

Applications testées:  
FC, IF, IHC, IP, WB, ELISA

Spécificité de l'espèce:  
Humain, rat, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) À défaut, 'le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

Contrôles positifs:

WB : cellules HeLa, cellules HEK-293, cellules HepG2, cellules HSC-T6, cellules Jurkat, cellules MCF-7, cellules NIH/3T3

IP : cellules HeLa,

IHC : tissu de cancer du côlon humain,

IF : cellules HepG2,

## Informations générales

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.

## Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

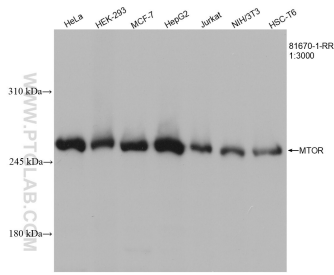
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

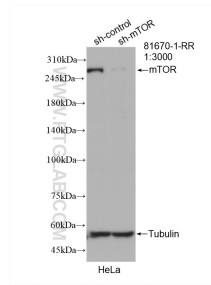
E: proteintech@ptglab.com  
W: ptglab.com

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

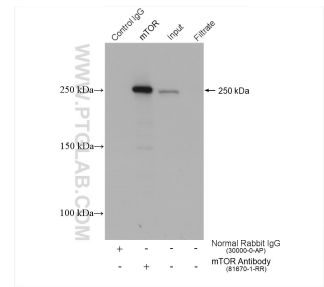
## Données de validation sélectionnées



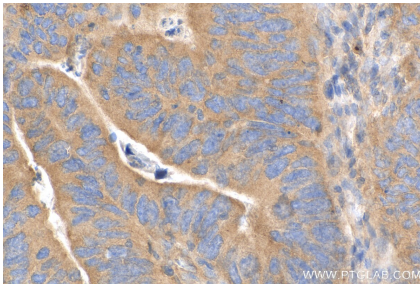
Various lysates were subjected to SDS PAGE followed by western blot with 81670-1-RR (mTOR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



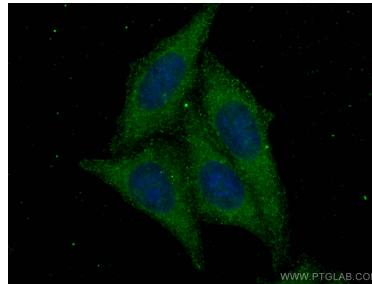
WB result of mTOR antibody (81670-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-mTOR transfected HeLa cells.



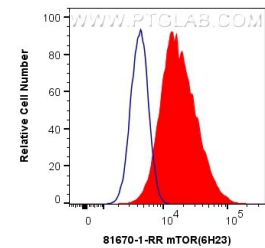
IP result of anti-mTOR (IP:81670-1-RR, 4ug; Detection:81670-1-RR 1:1000) with HeLa cells lysate 1760 ug.



Immunohistochemical analysis of paraffin-embedded 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).



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).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human mTOR (81670-1-RR, Clone:6H23) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).