

# mTOR Recombinant Rabbit Monoclonal Antibody (7H13L18)

## Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	7H13L18
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 1126-1411 of human mTOR
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532486

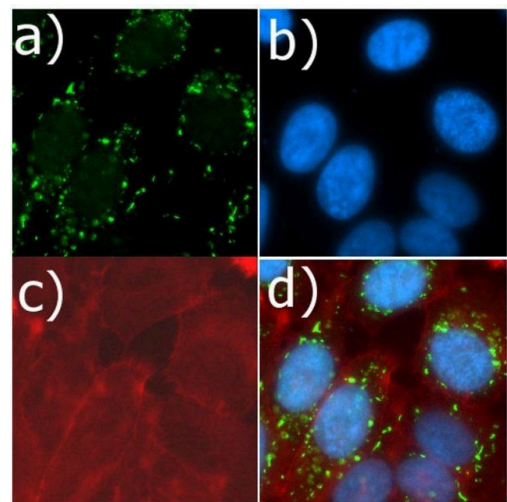
Applications	Tested Dilution	Publications
Western Blot (WB)	2-3 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	1-2 µg/mL	-

## Product Specific Information

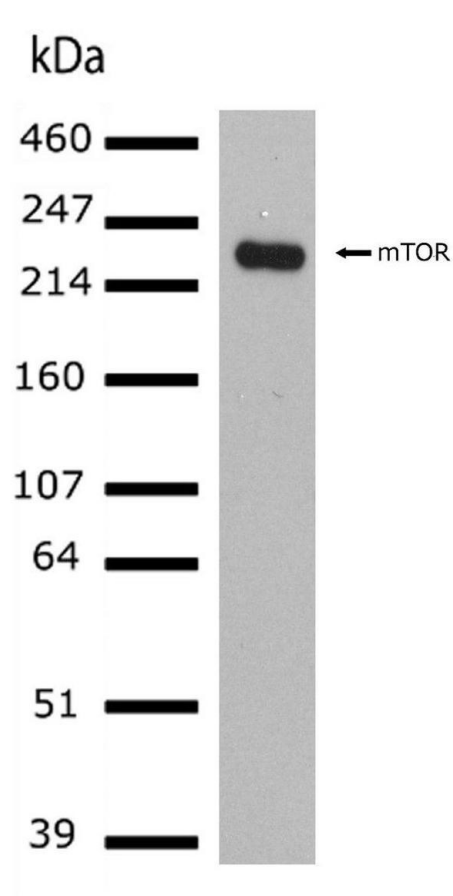
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For mTOR Recombinant Rabbit Monoclonal Antibody (7H13L18)



**mTOR Antibody (701483) in ICC/IF**  
Immunofluorescent analysis of mTOR in HeLa cells using a mTOR recombinant rabbit monoclonal antibody (Product # 701483) followed by detection using an Alexa Fluor 488-conjugated goat anti-rabbit secondary antibody (green) (Image A). Nuclei were stained using DAPI (Image B) and actin stained with Alexa Fluor 594 phalloidin (red) (image C). Image D is a composite image showing cytoplasmic and nuclear localization of mTOR.



**mTOR Antibody (701483) in WB**  
Western blot analysis of mTOR in whole cell extracts from serum-starved HEK293 using a mTOR recombinant rabbit monoclonal antibody (Product # 701483) at a dilution of 2 µg/mL. Detection was performed using an HRP-conjugated goat anti-rabbit secondary antibody followed by chemiluminescence (ECL). Results show a band at ~289kDa.

View more figures on [thermofisher.com](https://thermofisher.com)

### Western Blot (3)

Journal of cellular and molecular medicine

#### Polycystin-1 regulates cell proliferation and migration through AKT /mTORC2 pathway in a human craniosynostosis cell model.

"Published figure using mTOR recombinant monoclonal antibody (Product # 701483) in Western Blot"

Authors: Katsianou MA,Papavassiliou KA,Gargalionis AN,Agrogiannis G,Korkolopoulou P,Panagopoulos D, Themistocleous MS,Piperi C,Basdra EK,Papavassiliou AG

Year  
2022

Journal of cellular and molecular medicine

#### Polycystin-1 affects cancer cell behaviour and interacts with mTOR and Jak signalling pathways in cancer cell lines.

"701483 was used in Western Blotting to study the role of polycystin-1 in cancer biology."

Authors: Papavassiliou KA,Zoi I,Gargalionis AN,Koutsilieris M

Year  
2019

Species  
Human

Dilution  
1:250

[View more WB references on thermofisher.com](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.