

# 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

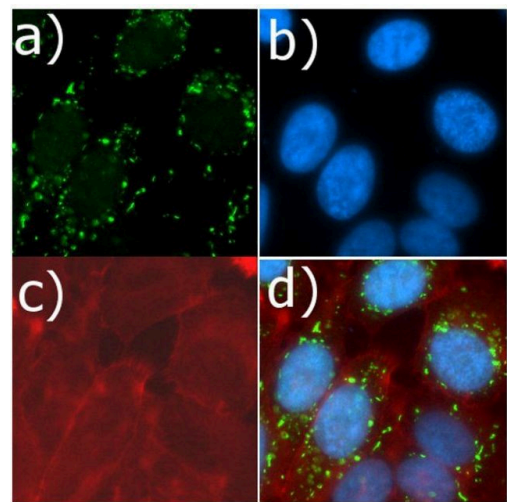
Applications	Tested Dilution	Publications
Western Blot (WB)	2-3 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	1-2 µg/mL	-

## Product Specific Information

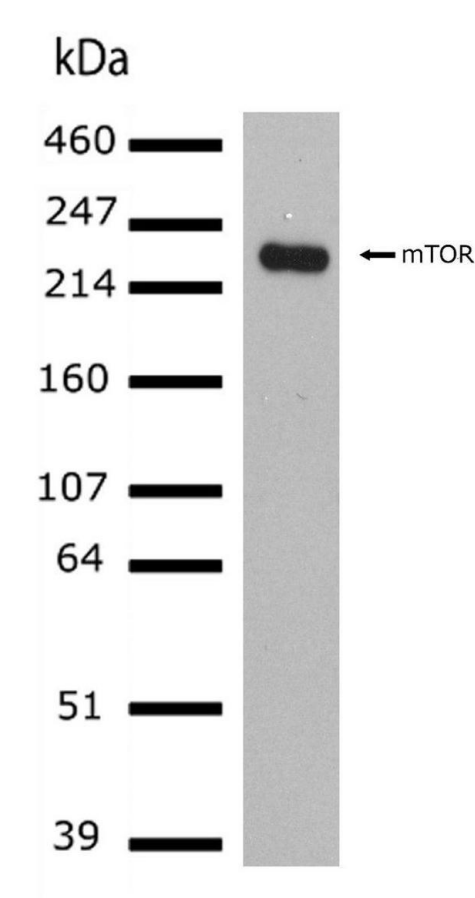
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

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.

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Western Blot (3)

<p>Journal of cellular and molecular medicine</p> <p><b>Polycystin-1 regulates cell proliferation and migration through AKT /mTORC2 pathway in a human craniosynostosis cell model.</b></p> <p>"Published figure using mTOR recombinant monoclonal antibody (Product # 701483) in Western Blot"</p> <p>Authors: Katsianou MA,Papavassiliou KA,Gargalionis AN,Agrogiannis G,Korkolopoulou P,Panagopoulos D, Themistocleous MS,Piperi C,Basdra EK,Papavassiliou AG</p>	<p>Year 2022</p>
<p>Journal of cellular and molecular medicine</p> <p><b>Polycystin-1 affects cancer cell behaviour and interacts with mTOR and Jak signalling pathways in cancer cell lines.</b></p> <p>"701483 was used in Western Blotting to study the role of polycystin-1 in cancer biology."</p> <p>Authors: Papavassiliou KA,Zoi I,Gargalionis AN,Koutsilieris M</p>	<p>Year 2019</p> <p>Species Human</p> <p>Dilution 1:250</p>

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