

mTOR Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human MTOR (aa 2477-2485)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
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_2633096

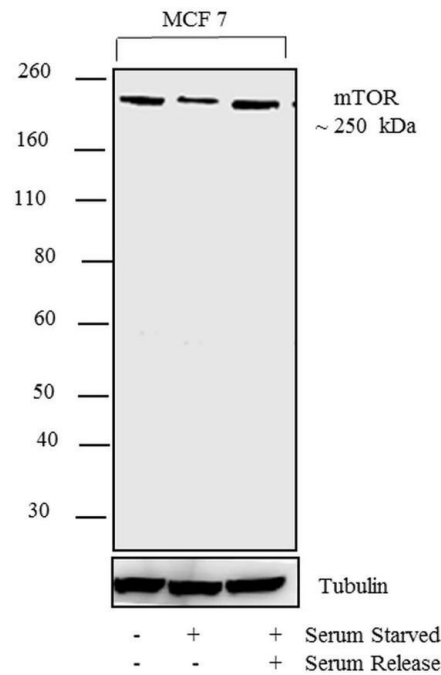
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-

Product Specific Information

This antibody is predicted to react with Monkey, Sheep and Bovine

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For mTOR Recombinant Polyclonal Antibody

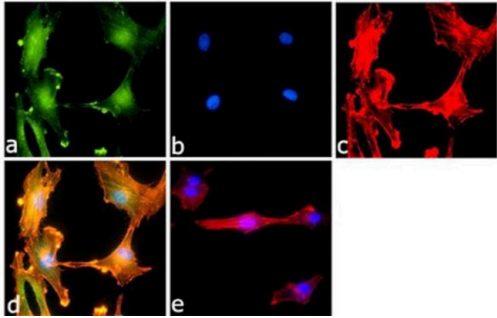


mTOR Antibody (710784) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of MCF-7 (Lane 1), MCF-7 (Serum Starved for 24 hr and Serum released for 2 hr) (Lane 2) and MCF-7 (Serum released) (Lane 3). The blots were probed with Anti-MTOR Recombinant Rabbit Polyclonal Antibody (Product # 710784, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 250 kDa band corresponding to MTOR was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with Wet transfer method. The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

mTOR Antibody (710784) in ICC/IF

Immunofluorescence was performed on fixed and permeabilized HEK-293 cells for detection of endogenous MTOR using Anti-MTOR CTERM Recombinant Rabbit Polyclonal Antibody (Product # 710784, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of MTOR protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of MTOR. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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