BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-RPTOR Antibody

**Catalog Number:** M01463-1

## About RPTOR

Involved in the control of the mammalian target of rapamycin complex 1 (mTORC1) activity which regulates cell growth and survival, and autophagy in response to nutrient and hormonal signals; functions as a scaffold for recruiting mTORC1 substrates. mTORC1 is activated in response to growth factors or amino acids. Growth factor-stimulated mTORC1 activation involves a AKT1- mediated phosphorylation of TSC1-TSC2, which leads to the activation of the RHEB GTPase that potently activates the protein kinase activity of mTORC1. Amino acid-signaling to mTORC1 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eiF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation. Involved in ciliogenesis.

## Submit a product review to Biocompare.com







Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

## Overview

| | |
|---|---|
| Product Name | Anti-RPTOR Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-RPTOR Antibody (Catalog # M01463-1). Tested in IHC-P, WB application(s). This antibody reacts with Human, Mouse, Rat. |
| Application | IHC-P, WB |
| Clonality | Monoclonal 1411CT316.2.151.34 |
| Formulation | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Host | Mouse |
| Uniprot ID | Q8N122 |

## Technical Details

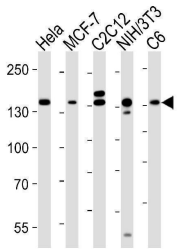
| | |
|---|---|
| Immunogen | This RPTOR antibody is generated from a mouse immunized with recombinant protein. |

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

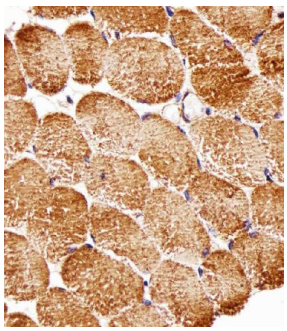
| | |
|---|---|
| Predicted Reactive Species | Bovine, Chicken, Horse, Monkey, Pig, Sheep, Xenopus |
| Isotype | IgG1,k |
| Purification | This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Suggested Dilutions | WB: 1:500-1:1000<br>IHC-P: 1:25<br>Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users. |

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-RPTOR Antibody (M01463-1) Images




Western blot analysis of lysates from Hela, MCF-7, mouse C2C12, mouse NIH/3T3, rat C6 cell line (from left to right), using RPTOR Antibody. M01463-1 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Immunohistochemical analysis of paraffin-embedded H. skeletal muscle section using RPTOR Antibody. M01463-1 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Anti-RPTOR Antibody

For Research Use Only. Not for use in diagnostic procedures.