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

# Anti-Raptor Rptor Antibody

**Catalog Number:** A01463-1

## About RPTOR

The mammalian Target of Rapamycin (TOR, also known as mTOR) is an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors. Rapamycin inhibits TOR activity resulting in reduced cell growth and reduced rates of cell cycle and cell proliferation. Raptor (regulatory associated protein of TOR) is a TOR-binding protein essential for TOR signaling in vivo. It acts as a TOR scaffold protein whose binding by TOR substrates is necessary for effective TOR-catalyzed phosphorylation. These substrates include the ribosomal protein S6 kinase (RP S6K) and the eukaryotic initiation factor 4E binding protein 4EBP1, proteins necessary for cell growth and proliferation and responsive to nutrient and mitogen levels. Raptor binds these proteins through a common 5 amino acid TOR-signaling (TOS) motif; mutation of this motif prevents the TOR-dependent phosphorylation of these proteins.

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## Overview

| | |
|---|---|
| Product Name | Anti-Raptor Rptor Antibody |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-Raptor Rptor Antibody (Catalog # A01463-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse. |
| Application | ELISA, IF, ICC, WB |
| Clonality | Polyclonal |
| Formulation | Raptor Antibody is supplied in PBS containing ≤0.09% sodium azide. |
| Storage Instructions | Raptor antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Host | Rabbit |
| Uniprot ID | Q8K4Q0 |

## Technical Details

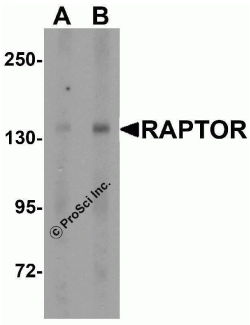
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| Immunogen | Raptor polyclonal antibody was raised against a 13 amino acid synthetic peptide from near the amino-terminus of human Raptor. The immunogen is located within amino acids 90 - 140 of Raptor. |

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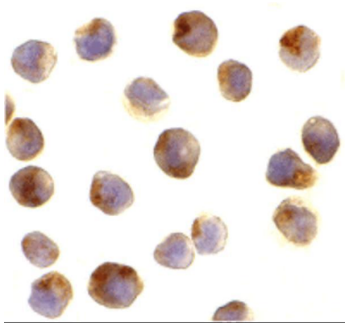
| | |
|---|---|
| Predicted Reactive Species | Human |
| Cross Reactivity | Raptor has multiple isoforms that may also be recognized by antibody. |
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Raptor Antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | Raptor antibody can be used for the detection of Raptor by Western blot at 2 and 4 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL. For immunofluorescence start at 10 ug/mL.<br>Antibody validated: Western Blot in mouse samples; Immunocytochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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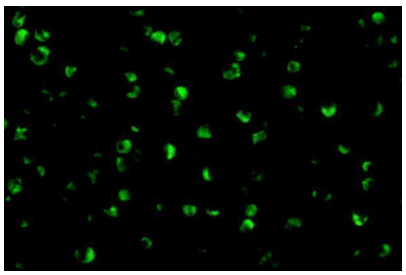
# Anti-Raptor Rptor Antibody (A01463-1) Images




Western blot analysis of Raptor in L1210 cell lysate with Raptor antibody at (A) 2 and (B) 4 ug/mL.



Immunocytochemistry of RAPTOR in L1210 cells with RAPTOR antibody at 10 ug/mL.



Immunofluorescence of Raptor in L1210 cells with Raptor antibody at 10 ug/mL.

Anti-Raptor Rptor Antibody

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