

Datasheet for ABIN7167652  
**anti-Raptor antibody (AA 13-128)**

## 3 Images

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## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µg   |
| Target:              | Raptor (RPTOR)   |
| Binding Specificity: | AA 13-128  |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Raptor antibody is un-conjugated                      |
| Application:         | ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | Recombinant Human Regulatory-associated protein of mTOR protein (13-128AA) |
| Isotype:          | IgG  |
| Cross-Reactivity: | Human  |
| Purification:     | >95%, Protein G purified   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | Raptor (RPTOR)  |
| Alternative Name: | RPTOR ( <a href="#">RPTOR Products</a> )  |
| Background:       | Background: 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 |

## Target Details

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.

Aliases: KIAA1303 antibody, KOG1 antibody, Mip1 antibody, P150 target of rapamycin (TOR) scaffold protein antibody, p150 target of rapamycin (TOR) scaffold protein containing WD repeats antibody, P150 target of rapamycin (TOR)-scaffold protein antibody, Raptor antibody, Regulatory associated protein of mTOR antibody, Regulatory associated protein of MTOR complex 1 antibody, Regulatory-associated protein of mTOR antibody, RPTOR antibody, RPTOR\_HUMAN antibody

UniProt: [Q8N122](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [Autophagy](#), [BCR Signaling](#), [Warburg Effect](#)

## Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

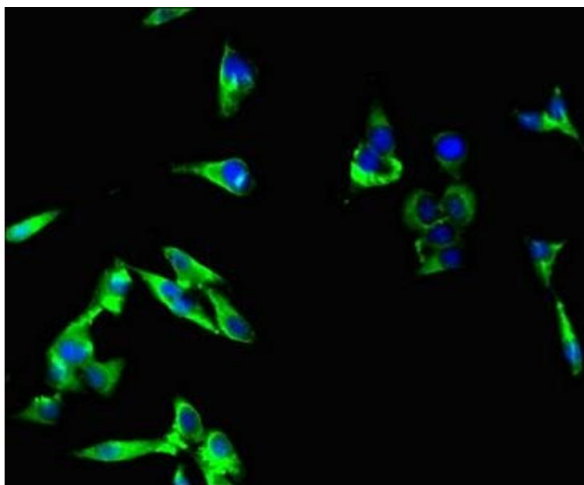
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C, -80 °C

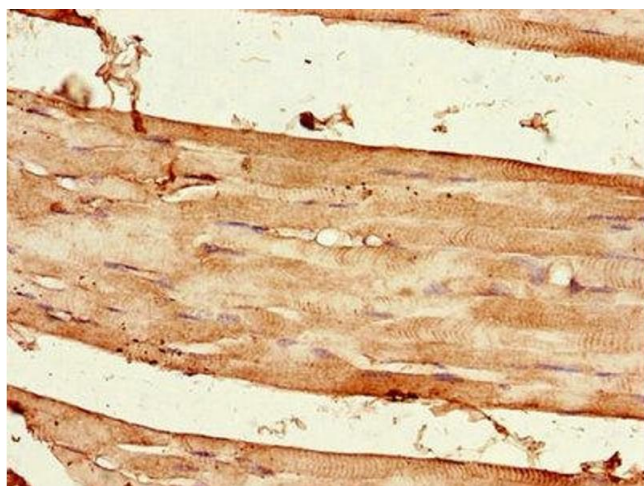
Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



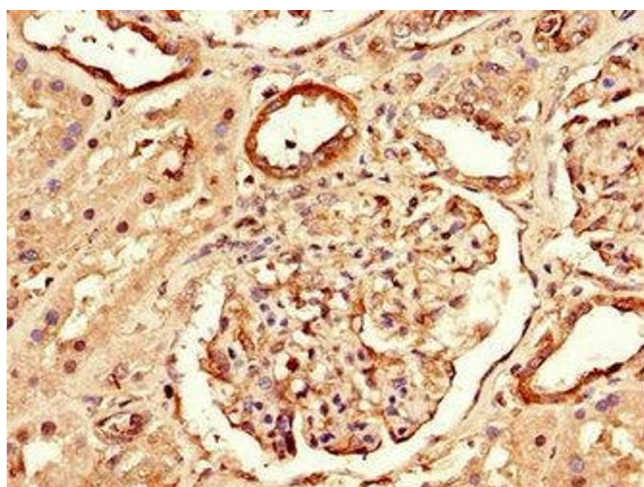
### Immunofluorescence

**Image 1.** Immunofluorescent analysis of HeLa cells using ABIN7167652 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



### Immunohistochemistry

**Image 2.** Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using ABIN7167652 at dilution of 1:100



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7167652 at dilution of 1:100