

Datasheet for ABIN6243898  
**anti-Raptor antibody (AA 1005-1329)**



[Go to Product page](#)

2 Images

## Overview

Quantity:	400 µL
Target:	Raptor (RPTOR)
Binding Specificity:	AA 1005-1329
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Raptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This RPTOR antibody is generated from a mouse immunized with recombinant protein.
Clone:	1411CT316-2-151-34
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

## Target Details

Target:	Raptor (RPTOR)
Alternative Name:	RPTOR ( <a href="#">RPTOR Products</a> )
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 nutrient and hormonal

## Target Details

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.

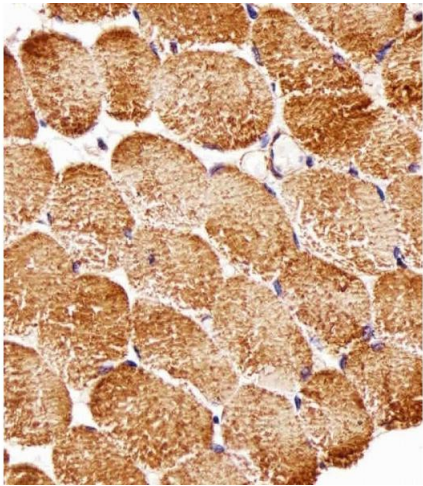
Molecular Weight:	149038
UniProt:	<a href="#">Q8N122</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Autophagy</a> , <a href="#">BCR Signaling</a> , <a href="#">Warburg Effect</a>

## Application Details

Application Notes:	WB: 1:500-1:1000. IHC-P: 1:25
Restrictions:	For Research Use only

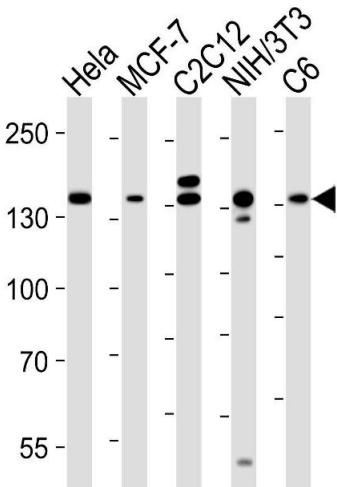
## Handling

Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months



**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 1.** Immunohistochemical analysis of paraffin-embedded H. skeletal muscle section using RPTOR Antibody (ABIN6243898 and ABIN6577082). (ABIN6243898 and ABIN6577082) was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



**Western Blotting**

**Image 2.** 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 (ABIN6243898 and ABIN6577082). (ABIN6243898 and ABIN6577082) 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 20 µg per lane.