# .-online.com antibodies

Datasheet for ABIN4913788 anti-Raptor antibody

2 Images



#### Overview

Quantity:	100 µL
Target:	Raptor (RPTOR)
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:	14C4
lsotype:	lgG1
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein G.

## Target Details

Target:	Raptor (RPTOR)
Alternative Name:	RPTOR (RPTOR Products)
Background:	Synonyms: KOG1, Mip1, Regulatory-associated protein of mTOR, Raptor, p150 target of rapamycin (TOR)-scaffold protein, RPTOR, KIAA1303

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN4913788 | 03/07/2024 | Copyright antibodies-online. All rights reserved.

	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 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.
Gene ID:	57521
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:	WB 1:300-5000
	IHC-P 1:200-400
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.5 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN4913788 | 03/07/2024 | Copyright antibodies-online. All rights reserved. Storage Comment:

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date:

12 months

#### Images



#### **Western Blotting**

**Image 1.** Lane 1: HeLa Cell lysates, Lane 2: MCF-7 Cell lysates, Lane 3: C2C12 Cell lysates, Lane 4: NIH/3T3 Cell lysates, Lane 5: C6 Cell lysates, probed with RPTOR (1411CT316.2.151.34) Monoclonal Antibody, unconjugated (bsm-51285M) at 1:1000 overnight at 4°C followed by a conjugated secondary antibody for 60 minutes at 37°C.

#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Paraformaldehyde-fixed, paraffin embedded human skeletal muscle tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with RPTOR (1411CT316.2.151.34) Monoclonal Antibody (bsm-51285M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN4913788 | 03/07/2024 | Copyright antibodies-online. All rights reserved.