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Datasheet for ABIN7167653
anti-Raptor antibody (AA 13-128) (Biotin)

Overview

Quantity:	100 µg
Target:	Raptor (RPTOR)
Binding Specificity:	AA 13-128
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Raptor antibody is conjugated to Biotin
Application:	ELISA

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 (RPTOR Products)
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: Optimal working dilution should be determined by the investigator.

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.