

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human Rictor in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 454313
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rictor Met1-Leu250 Accession # Q6R327
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Rictor (rapamycin-insensitive companion of mTOR) is a member of the mTORC2 complex, which regulates cell growth by integrating stress, energy, and nutrient signals with growth factor derived signals. Rictor contains no obvious catalytic motifs, but knockdown studies of mTOR or Rictor results in a loss actin polymerization and cell spreading. In vitro, the mTOR-Rictor complex phosphorylates Akt/PKB on Ser473, an essential step for full activation of Akt/PKB. Additionally, recent studies have shown that mTOR-Rictor regulates PKC α phosphorylation and PDGFR β expression and signaling. Rictor has also been described as a protein substrate for Akt.

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