

DESCRIPTION

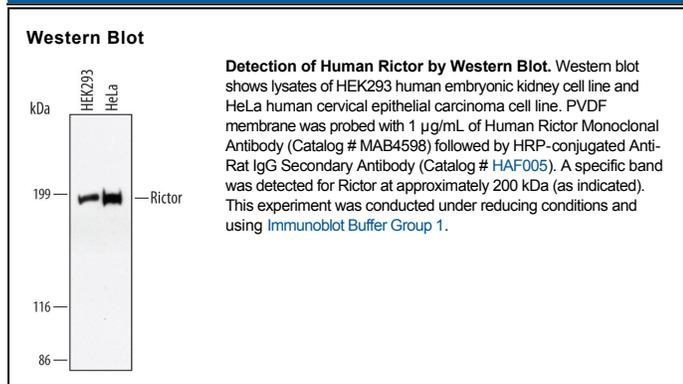
Species Reactivity	Human
Specificity	Detects endogenous human Rictor in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 454313
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Rictor Met1-Leu250 Accession # Q6R327
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 PDGFRβ expression and signaling. Rictor has also been described as a protein substrate for Akt.