



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to RICTOR

Catalog Number: MAB-606030093

Lot#:
Clone#: 4H5
Host and isotype: Mouse IgG1
Size: 0.1ml
MW: 192kDa
Aliases: PIA; mAVO3;
KIAA1999; MGC39830;
DKFZp686B11164; RICTOR
Entrez Gene: 253260
Species reactivity: Human;
Monkey; Mouse

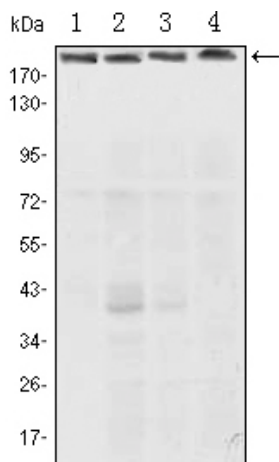


Figure 1: Western blot analysis using RICTOR mouse mAb against HeLa (1), PANC-1 (2), MOLT4 (3), and HepG2 (4) cell lysate.

Description Cell growth is a fundamental biological process whereby cells accumulate mass and increase in size. The mammalian TOR (mTOR) pathway regulates growth by coordinating energy and nutrient signals with growth factor-derived signals. mTOR is a large protein kinase with two different complexes. One complex contains mTOR, G β 12 and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, G β 12, Sin1 and rictor. The mTOR-rictor complex phosphorylates Ser473 of Akt/PKB in vitro. This phosphorylation is essential for full Akt/PKB activation. Furthermore, an siRNA knockdown of rictor inhibits Ser473 phosphorylation in 3T3-L1 adipocytes. This complex has also been shown to phosphorylate the rapamycin-resistant mutants of S6K1, another effector of mTOR.

Immunogen Purified recombinant fragment of human RICTOR expressed in E. Coli.

Application Western Blotting: 1/500 - 1/2000.

ELISA: Propose dilution 1/10000.

Not yet tested in other applications.

Determining optimal working dilutions by titration test.

Formulation Aseptic fluid containing 0.03% sodium azide.

Storage Store at 4°C, for long term storage, store at -20°C.

Related product References 1. Genes Dev. 2006 Oct 15;20(20):2820-32.
2. Biochem Biophys Res Commun. 2008 Aug 8;372(4):578-83.

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