

Mouse Monoclonal Antibody to RICTOR

Catalogue Number	sAP-0443
Target Molecule	Name: RICTOR Aliases: PIA; mAVO3; KIAA1999; MGC39830; DKFZp686B11164; RICTOR MW: 192kDa Entrez Gene ID: 253260
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 L and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, G β L, 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.
Recitative Species	Human; Monkey; Mouse
Clone	MM7B3;
Size and Concentration	100 μ g/1mg/ml
Supplied as	Lyophilized Powder from 100 μ l of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100 μ l sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. Genes Dev. 2006 Oct 15;20(20):2820-32. ; 2. Biochem Biophys Res Commun. 2008 Aug 8;372(4):578-83.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**