Product Data Sheet:
RICTOR Monoclonal Antibody

Cat. No:	MAB-94699
Conjugate:	Unconjugated
Size:	100UG
Clone:	MONO
Concentration:	53A2
Host:	Rb
Isotype:	IgG
Immunogen:	rapamycin-insensitive companion of mTOR
Reactivity:	Hu, Ms, Rt
Applications:	WB: 1:1000-1:5000; IHC: 1:50-1:2
Molecular Weight:	192 kDa
Purification:	Aff. Pur.
Synonyms:	AVO3 homolog, hAVO3, KIAA1999, mAVO3, RICTO
Background:	Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient – insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic growth and development
Form:	Liquid
Buffer:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3
Storage:	-20° for 12months

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