

# RICTOR Antibody

Purified Mouse Monoclonal Antibody  
Catalog # AO1445a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q6R327</a>
<b>Reactivity</b>	Human, Mouse, Monkey
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	4H5
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	192218 Da
<b>Description</b>	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, GβL and raptor, which is a target of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, GβL, 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 .
<b>Immunogen</b>	Purified recombinant fragment of human RICTOR expressed in E. Coli.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide.

## Additional Information

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<b>Other Names</b>	Rapamycin-insensitive companion of mTOR, AVO3 homolog, hAVO3, RICTOR {ECO:0000312   EMBL:EAW55980.1}
<b>Dilution</b>	WB~~1/500 - 1/2000 E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	RICTOR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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## References

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

## Images

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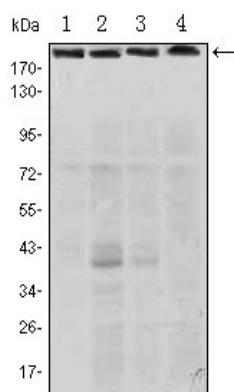


Figure 1: Western blot analysis using RICTOR mouse mAb against HeLa (1), PANC-1 (2), MOLT4 (3), and HepG2 (4) cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.