

Product datasheet for **TA392544S**

RICTOR Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200 IF: 1:50~1:200
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human Rictor around the phosphorylation site of Threonine 1135.
Specificity:	Rictor (Phospho-Thr1135) polyclonal antibody detects endogenous levels of Rictor protein only when phosphorylated at Thr1135.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 210 kDa
Gene Name:	RPTOR independent companion of MTOR complex 2
Database Link:	Entrez Gene 253260 Human Q6R327



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Background:

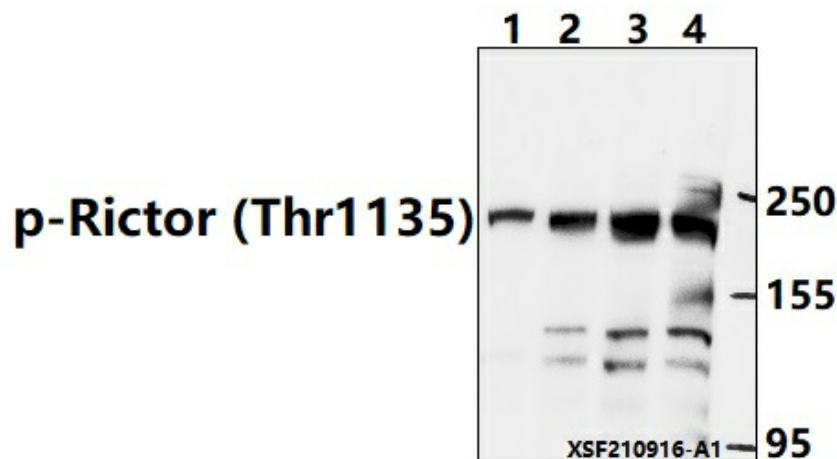
Cell growth is a fundamental biological process whereby cells accumulate mass and increase in size. The mammalian TOR (mTOR) pathway regulates growth by coordinating energy and nutrient signals with growth factor-derived signals. mTOR is a large protein kinase with two different complexes. One complex 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. Phosphorylation of Thr1135 on rictor was identified at Cell Signaling Technology (CST) using PhosphoScan®, CST's LC-MS/MS platform for phosphorylation site discovery. Additional research indicates that rictor is phosphorylated at Thr1135 by p70 S6K, which negatively regulates mTORC2 protein complex as part of a negative feedback mechanism controlling Akt activity.

Synonyms:

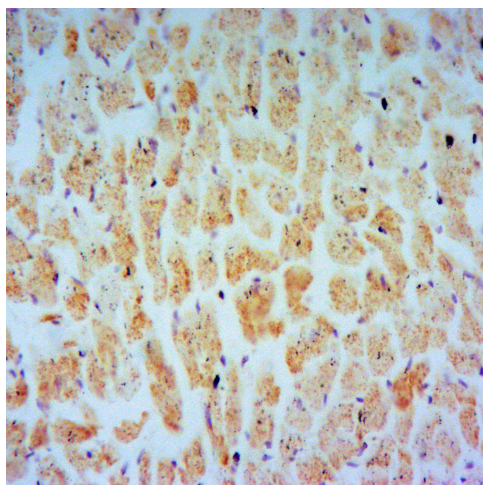
AVO3 homolog; hAVO3; KIAA1999; Rapamycin-insensitive companion of mTOR; RICTOR

Note:

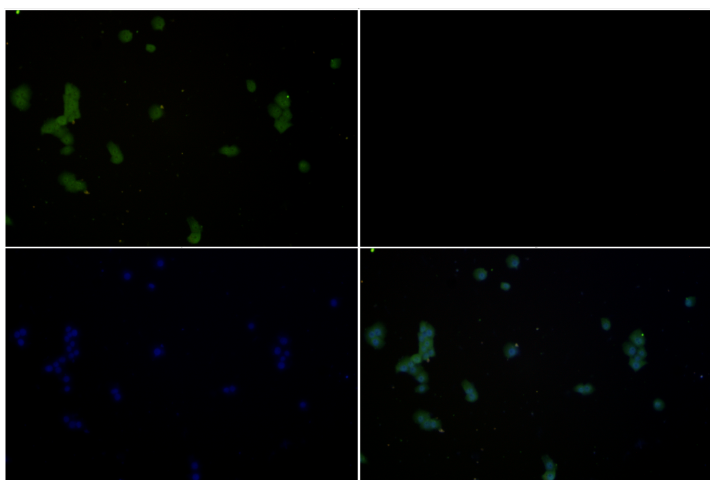
For research use only, not for use in diagnostic procedure.

Product images:

Western blot (WB) analysis of Rictor (Phospho-Thr1135) polyclonal antibody at 1:500 dilution
Lane1:HeLa treated with λ-phosphatase whole cell lysate(40ug) Lane2:HeLa treated with IGF-1(50 ng/ml,30 minutes) whole cell lysate(40ug)
Lane3:HeLa treated with IGF-1(50 ng/ml,15 minutes) whole cell lysate(40ug) Lane4:HeLa whole cell lysate(40ug)



Immunohistochemistry of paraffin-embedded Rat Heart using Rictor (Phospho-Thr1135) antibody at dilution of 1:50.



Immunofluorescence analysis of HeLa cells using Rictor antibody at dilution of 1:50.