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# Datasheet for ABIN969382 anti-RICTOR antibody

4 Images

1 Publication



### Overview

Quantity:	100 µL
Target:	RICTOR
Reactivity:	Human, Mouse, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This RICTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

# Product Details

Immunogen:	Purified recombinant fragment of human RICTOR expressed in E. coli.
Clone:	7B3
lsotype:	lgG1
Purification:	purified

## Target Details

Target:	RICTOR
Alternative Name:	RICTOR (RICTOR Products)
Background:	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

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# Target Details

	with two different complexes. One complex contains mTOR, G $eta$ L and raptor, which is a target
	of rapamycin. The other complex, insensitive to rapamycin, includes mTOR, G $eta$ 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 .
	Aliases: PIA, mAVO3, KIAA1999, MGC39830, DKFZp686B11164, RICTOR
Molecular Weight:	192 kDa
Molecular Weight: Gene ID:	192 kDa 253260
Gene ID:	253260
Gene ID: HGNC:	253260 253260

## Application Details

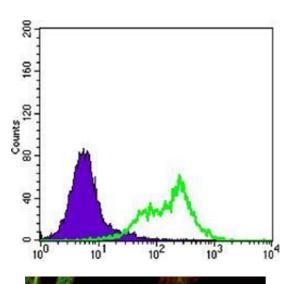
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

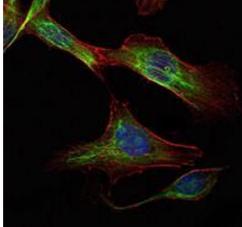
## Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
Publications	

Product cited in: Jacques, Pereira, Maia, Cuzzi, Ramos-e-Silva: "Expression of cytokeratins 10, 13, 14 and 19 in oral lichen planus." in: **Journal of oral science**, Vol. 51, Issue 3, pp. 355-65, (2009) (PubMed).

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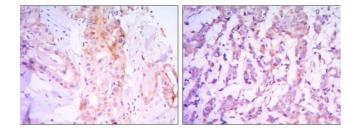


#### **Flow Cytometry**

**Image 1.** Flow cytometric analysis of Hela cells using RICTOR mouse mAb (green) and negative control (purple).

### Immunofluorescence

**Image 2.** Immunofluorescence analysis of NIH/3T3 cells using RICTOR mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



### Immunohistochemistry

**Image 3.** Immunohistochemical analysis of paraffinembedded thyroid gland tissues (left) and human breast carcinoma (right) using RICTOR mouse mAb with DAB staining.

Please check the product details page for more images. Overall 4 images are available for ABIN969382.

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