10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Rictor Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10745

Specification

Rictor Antibody - Product Information

Application	**WB**
Primary Accession	Q6QI06
Other Accession	NP_084444
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**191570**

Rictor Antibody - Additional Information

Gene ID 78757

Positive Control	**Jurkat, HeLa, 3T3 cell lysates**
Application & Usage	**The antibody can be used for Western blotting (1–4 µg/ml).**

Other Names
RICTOR; DKFZp686B11164; KIAA1999; MGC39830; mAVO3

Target/Specificity
Rictor

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
200 µg (0.5 mg/ml) affinity purified rabbit anti-Rictor polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Rictor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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Rictor Antibody - Protein Information

Name Rictor {ECO:0000312|MGI:MGI:1926007}

Function
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.

Tissue Location
Highest levels in liver and brain with expression also detected in heart, muscle, spleen and kidney (at protein level)

Rictor Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rictor Antibody - Images

Rictor Antibody - Background

Rictor is a component of a protein complex [mTORC2] that integrates nutrient- and growth factor-derived signals to regulate cell growth. Rictor also plays an essential role in Akt phosphorylation and signaling.