

## RICTOR Antibody (F53372)

| Catalog No.   | Formulation                                | Size    |
|---------------|--|---------|
| F53372-0.4ML  | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml  |
| F53372-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

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|                           |  |
|---------------------------|--|
| <b>Availability</b>       | 1-3 business days  |
| <b>Species Reactivity</b> | Human  |
| <b>Format</b>             | Antigen affinity purified                                |
| <b>Host</b>               | Rabbit   |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                               |
| <b>Isotype</b>            | Rabbit Ig  |
| <b>Purity</b>             | Antigen affinity   |
| <b>UniProt</b>            | Q6R327   |
| <b>Applications</b>       | Western Blot : 1:2000                                    |
| <b>Limitations</b>        | This RICTOR antibody is available for research use only. |



Western blot testing of RICTOR antibody at 1:2000 dilution + HepG2 lysate; Predicted molecular weight ~200 kDa.

## Description

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.

## **Application Notes**

Titration of the RICTOR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## **Immunogen**

This RICTOR antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 1068-1102 amino acids from the Central region of human RICTOR.

## **Storage**

Aliquot the RICTOR antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.