

**RICTOR Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7259b****Specification**

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**RICTOR Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q6R327</a>
Other Accession	<a href="#">Q6QI06</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	192218
Antigen Region	1617-1650

**RICTOR Antibody (C-term) - Additional Information****Gene ID** 253260**Other Names**Rapamycin-insensitive companion of mTOR, AVO3 homolog, hAVO3, RICTOR  
{ECO:0000312|EMBL:EAW559801}**Target/Specificity**

This RICTOR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1617-1650 amino acids from the C-terminal region of human RICTOR.

**Dilution**WB~~1:1000  
IHC-P~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RICTOR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**RICTOR Antibody (C-term) - Protein Information****Name** RICTOR ([HGNC:28611](#))

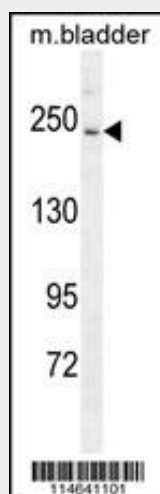
**Function** Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably 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.

### **RICTOR Antibody (C-term) - Protocols**

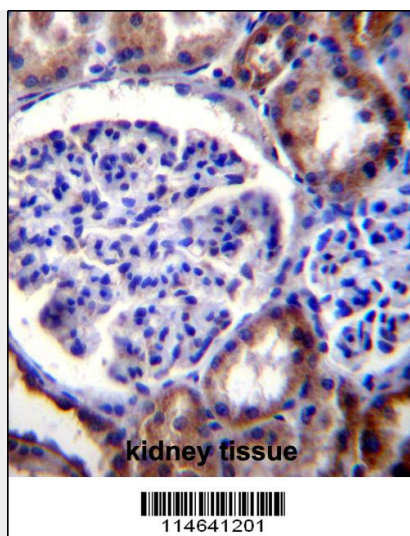
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **RICTOR Antibody (C-term) - Images**



RICTOR Antibody (C-term) (Cat. #AP7259b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the RICTOR antibody detected the RICTOR protein (arrow).



RICTOR Antibody (C-term) (Cat. #AP7259b) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of RICTOR Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **RICTOR Antibody (C-term) - Background**

RICTOR and MTOR (FRAP1) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth.

#### **RICTOR Antibody (C-term) - References**

Pearce, L.R., *Biochem. J.* 405 (3), 513-522 (2007)  
Yang, Q., *Genes Dev.* 20 (20), 2820-2832 (2006)  
Jacinto, E., *Cell* 127 (1), 125-137 (2006)