

For Research Use Only

# RICTOR Monoclonal antibody

Catalog Number: 66867-2-Ig **4 Publications**



## Basic Information

<b>Catalog Number:</b> 66867-2-Ig	<b>GenBank Accession Number:</b> BC029608	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1600 ug/ml	<b>GeneID (NCBI):</b> 253260	<b>CloneNo.:</b> 1D1C4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q6R327	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IF/ICC 1:850-1:3400
<b>Isotype:</b> IgG1	<b>Full Name:</b> rapamycin-insensitive companion of mTOR	
<b>Immunogen Catalog Number:</b> AG28487	<b>Calculated MW:</b> 192 kDa	
	<b>Observed MW:</b> 192 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> NCI-H1299 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> NIH/3T3 cells,
<b>Cited Species:</b> human	

## Background Information

RICTOR, is a key component of the mTOR complex 2 (mTORC2) and is required for phosphorylation of Akt at serine 473. RICTOR is the upstream kinase of several AGC kinase family members including AKT, SGK, S6K mutants and several PKC isoforms. Activation of RICTOR-mTORC2 modifies actin organization and promotes cell proliferation and survival. Rictor is overexpressed in several cancers leading to hyperactive mTORC2 and has been shown to play a causal role in glioma formation. Rictor expression has been demonstrated to be regulated transcriptionally and via protein degradation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuyang Zhao	32850947	Front Mol Biosci	WB
Yongjin Wang	39000273	Int J Mol Sci	WB
Lixin He	37751742	Mol Cell	WB

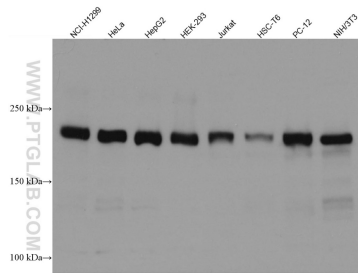
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

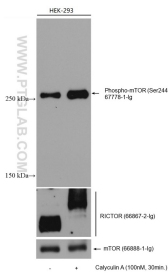
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

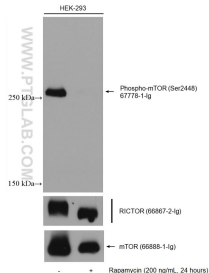
## Selected Validation Data



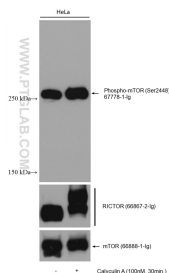
Various lysates were subjected to SDS PAGE followed by western blot with 66867-2-Ig (RICTOR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



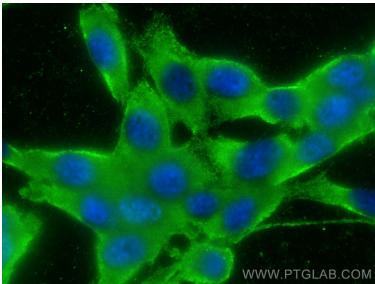
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 67778-1-Ig (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-Ig) and mTOR antibody (66888-1-Ig) subsequently.



Non-treated and Rapamycin treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 67778-1-Ig (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-Ig) and mTOR antibody (66888-1-Ig) subsequently.



Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 67778-1-Ig (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-Ig) and mTOR antibody (66888-1-Ig) subsequently.



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using RICTOR antibody (66867-2-Ig, Clone: 1D1C4 ) at dilution of 1:1700 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).