

For Research Use Only

# Phospho-RIPK1 (Ser161) Monoclonal antibody

Catalog Number: 66854-1-Ig

20 Publications



## Basic Information

<b>Catalog Number:</b> 66854-1-Ig	<b>GenBank Accession Number:</b> NM_003804	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 1500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8737	<b>CloneNo.:</b> 1B2G1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13546	<b>Recommended Dilutions:</b> WB 1:2000- 1:20000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> receptor (TNFRSF)-interacting serine-threonine kinase 1	
	<b>Calculated MW:</b> 76 kDa	
	<b>Observed MW:</b> 74 kDa, 45 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : Jurkat cells, Calyculin A treated HEK-293T cells, Raji cells, THP-1 cells IHC : human small intestine tissue, human heart tissue IF/ICC : U2OS cells, Calyculin A treated HeLa cells
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

RIPK1(Receptor-interacting serine/threonine-protein kinase 1) is primarily involved in mediating TNF-R1-induced cell activation, apoptosis and necroptosis and belongs to a novel class of kinases that function in cell survival and cell death mechanisms(PMID:22685397). It has 2 isoforms produced by alternative splicing. It also can exist as the protein with lower molecular weight about 25kd and 45kd in HAEC and HUVEC(PMID:22685397).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ye Wang	36505813	Front Oncol	WB
Chia-Kang Ho	35322540	J Cell Mol Med	WB
Yongchang Yang	35308164	Front Genet	WB

## Storage

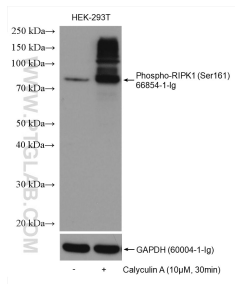
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

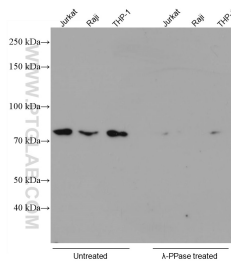
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

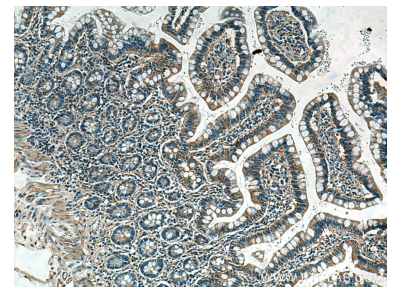
## Selected Validation Data



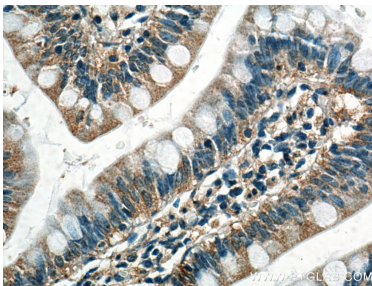
Non-treated HEK-293T and Calyculin A treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 66854-1-ig (Phospho-RIPK1 (Ser161) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



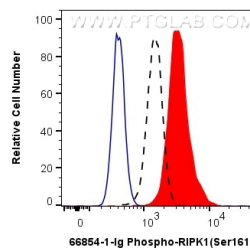
Various lysates were subjected to SDS PAGE followed by western blot with 66854-1-ig (Phospho-RIPK1 (Ser161) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was untreated (left) or treated with Lambda Protein Phosphatase ( $\lambda$ -PPase, 500U, right) at 37°C for 1 hours before blocking.



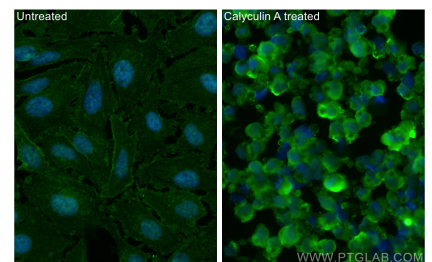
Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66854-1-ig (RIPK1 phospho S161 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



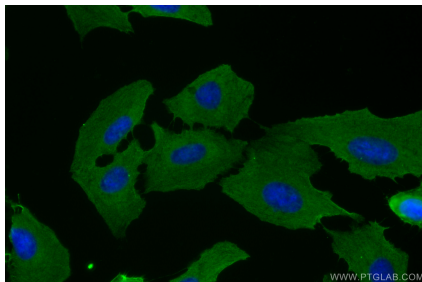
Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66854-1-ig (RIPK1 phospho S161 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  Calyculin A treated HEK-293T cells were intracellularly stained with 0.13  $\mu$ g Anti-Human Phospho-RIPK1 (Ser161) (66854-1-ig, Clone:1B2G1) labeled with FlexAble Coralite® Plus 555 Antibody Labeling Kit for Mouse IgG1 (KFA022). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated HeLa cells using Phospho-RIPK1 (Ser161) antibody (66854-1-ig, Clone: 1B2G1) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using Phospho-RIPK1 (Ser161) antibody (66854-1-ig, Clone: 1B2G1) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).