For Research Use Only

Phospho-RIPK1 (Ser166) Polyclonal antibody

Catalog Number:28252-1-AP

13 Publications

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Basic Information

Catalog Number:
28252-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003804

GeneID (NCBI):
8737

UNIPROT ID:
Q13546

Full Name:
receptor (TNFRSF)-interacting serine-threonine kinase 1

Calculated MW:
76 kDa

Observed MW:
70-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
Human

Cited Species:
human, mouse

Positive Controls:

WB : TNF-alpha treated HT-29 cells,

Background Information

RIPK1, a 74 kDa protein, is composed of a N-terminal kinase domain, an intermediate domain (containing the RIP homotypic interaction motif, RHIM) and a C-terminal death domain. Stimulation of cells with TNF α can promote distinct cell death pathways, including RIPK1-independent apoptosis, necroptosis, and RIPK1-dependent apoptosis (RDA). TNF α induces cell necroptosis and the phosphorylation of RIPK1 at the Ser166 residue i.e. p-RIPK1 (Ser166), both of which can be effectively inhibited by Nec-1. Therefore, p-RIPK1 (Ser166) is considered a biomarker for the activation of RIPK1 kinase and necroptosis (PMID: 31440386, PMID: 29891719).

Notable Publications

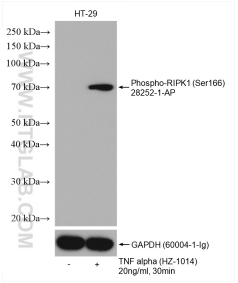
Author	Pubmed ID	Journal	Application
Lulu Wo	35387966	Cell Death Discov	WB
Jichen Pan	40822127	Research (Wash D C)	WB
Xuemei Yao	40344881	Biomaterials	WB

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

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

Selected Validation Data



Non-treated HT-29 and TNF alpha (HZ-1014) treated HT-29 cells were subjected to SDS PAGE followed by western blot with 28252-1-AP (Phospho-RIPK1 (Ser166) antibody) at dilution of 1:1000 incubated at 4℃ overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.