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## Datasheet for ABIN3042930 anti-RIPK1 antibody (Middle Region)

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#### Overview

Quantity:	100 µg
Target:	RIPK1
Binding Specificity:	AA 411-425, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RIPK1 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Receptor-interacting serine/threonine-protein kinase 1(RIPK1) detection. Tested with WB in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human RIP(411-425aa RRRRVSHDPFAQQRP).
Sequence:	RRRRVSHDPF AQQRP
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Receptor-interacting serine/threonine-protein kinase
	1(RIPK1) detection. Tested with WB in Human.

Protein Name: Receptor-interacting serine/threonine-protein kinase 1

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### Product Details

Purification:

Immunogen affinity purified.

## Target Details

Target:	RIPK1
Alternative Name:	RIPK1 (RIPK1 Products)
Background:	RIPK1(Regulator of G Protein Signaling 3), also called RIP, is an enzyme that in humans is
	encoded by the RIPK1 gene. Members of the TRAF protein family have been implicated in the
	activation of NF-kappa-B by the TNF superfamily. By yeast 2-hybrid and coimmunoprecipitation
	studies using mammalian cell extracts, Hsu et al.(1996) showed that RIP interacts with TRADD,
	TRAF1, TRAF2, and TRAF3. Hartz(2012) mapped the RIPK1 gene to chromosome 6p25.2 based
	on an alignment of the RIPK1 sequence with the genomic sequence. Stanger et al.(1995) found
	that overexpression of Rip in mammalian cells induced morphologic changes characteristic of
	apoptosis. They suggested that RIP may be an important element in the signal transduction
	machinery that mediates programmed cell death.
	Synonyms: Cell death protein RIP antibody FLJ39204 antibody OTTHUMP00000039163
	antibody Receptor(TNFRSF) interacting serine threonine kinase 1 antibody receptor interacting
	protein 1 antibody Receptor interacting protein antibody Receptor interacting serine threonine
	protein kinase 1 antibody Receptor TNFRSF interacting serine threonine kinase 1
	antibody Receptor-interacting protein 1 antibody Receptor-interacting serine/threonine-protein
	kinase 1 antibody Rinp antibody RIP 1 antibody RIP antibody Rip-1 antibody RIP1 antibody RIPK
	1 antibody RIPK1 antibody RIPK1_HUMAN antibody Serine threonine protein kinase RIP
	antibody Serine/threonine-protein kinase RIP antibody
UniProt:	Q13546
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Activation of
	Innate immune Response, Inositol Metabolic Process, Positive Regulation of Endopeptidase
	Activity, Hepatitis C, Protein targeting to Nucleus, Toll-Like Receptors Cascades, Negative
	Regulation of intrinsic apoptotic Signaling, SARS-CoV-2 Protein Interactome, Ubiquitin
	Proteasome Pathway
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 $\mu$ g/mL, Tested Species: Human, The detection limit for RIPK1 is
	approximately 1 ng/lane under reducing conditions.

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Application Details	
	Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.
	Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

#### Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu\text{g/mL}.$
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months
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## Publications

Product cited in:Zhang, Yan, Xu, Fang, Zhang, Zhang, Wu, Kong, Huang: "The recovery trajectory of adolescent<br/>social defeat stress-induced behavioral, (1)H-MRS metabolites and myelin changes in Balb/c<br/>mice." in: Scientific reports, Vol. 6, pp. 27906, (2018) (PubMed).

Sun, Hu, Xiong, Tu, Zhao, Chen, Song, Ye: "Enhanced expression of stem cell markers and drug resistance in sphere-forming non-small cell lung cancer cells." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 6, pp. 6287-300, (2016) (PubMed).

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#### Images

0KD -	Western Blotting
кр — —	Image 1. Anti- RIP antibody, Western blotting All lanes: Ant
кр —	RIP at 0.5ug/ml WB: HELA Whole Cell Lysate at 40u Predicted bind size: 76KD Observed bind size: 76KD
<b>-</b> 5	
KD-	
5KD -	
	Western Blotting
D —	
)	Western Blotting   Image 2. Anti- RIP antibody, Western blottingAll lanes: An   RIP at 0.5ug/mIWB: HELA Whole Cell Lysate a   40ugPredicted bind size: 76KDObserved bind size: 76KD
KD – KD – –	<b>Image 2.</b> Anti- RIP antibody, Western blottingAll lanes: An RIP at 0.5ug/mIWB: HELA Whole Cell Lysate a
15KD – 70KD – 70KD – 55KD – 35KD –	<b>Image 2.</b> Anti- RIP antibody, Western blottingAll lanes: An RIP at 0.5ug/mIWB: HELA Whole Cell Lysate a

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