

Anti-RIPK1 Antibody

Catalog Number: A00141-1

About RIPK1

RIPK1 (Receptor Interacting Protein) is a crucial 74 kD adaptor kinase in several of stress-induced signaling pathways and on the crossroad of a cell's decision to live or die. RIPK1 contains an N-terminal region with homology to protein kinases, an intermediate domain capable of association with MAPKKK and a C-terminal region containing a death domain motif present in the Fas and TNFR1 intracellular domains. Full length RIPK1 is important for signalling to NFkappa-B, MAPKs and necrosis, whereas caspase-8 generates a C-terminal RIPK1 cleavage fragment, promoting TNF-induced apoptosis. It is required for TNFRSF1A-mediated and TLR3-induced NF-kappaB activation. RIPK1-deficient mice fail to thrive, displaying extensive apoptosis in both lymphoid and adipose tissues and dying at 1-3 days of age.

Overview

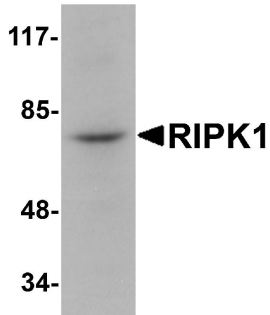
Product Name	Anti-RIPK1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-RIPK1 Antibody (Catalog # A00141-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal Clone: SK7
Formulation	RIPK1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	RIPK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q13546

Technical Details

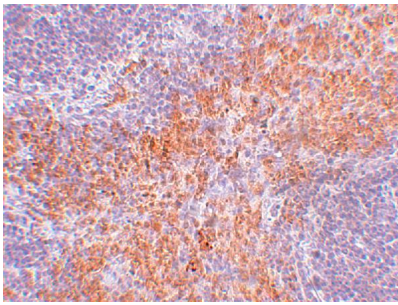
Immunogen	RIPK1 antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human RIPK1. The immunogen is located within amino acids 180 - 230 of RIPK1.
Predicted Reactive Species	Mouse
Cross Reactivity	MMP9 antibody is human, mouse and rat reactive. At least three isoforms of MMP9 are known to exist; this antibody only recognizes the two longest isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	RIPK1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: RIPK1 antibody can be used for detection of RIPK1 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

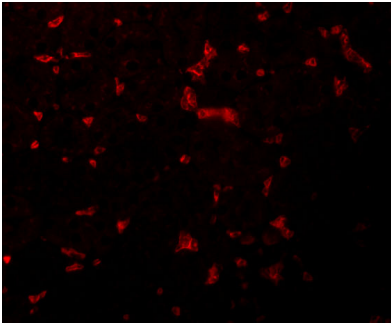
Anti-RIPK1 Antibody (A00141-1) Images



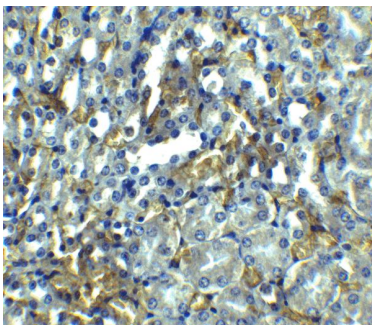
Western blot analysis of RIPK1 in rat kidney tissue lysate with RIPK1 antibody at 1 ug/mL.



Immunohistochemistry of RIPK1 in mouse kidney tissue with RIPK1 antibody at 2.5 ug/mL.



Immunofluorescence of RIPK1 in Mouse Kidney cells with RIPK1 antibody at 20 ug/mL.



Immunohistochemistry of RIPK1 in mouse kidney tissue with RIPK1 antibody at 2.5 ug/ml.

2 Publications Citing This Product

1. PubMed ID: 32135123, Chen H,Tang LJ,Tu H,Zhou YJ,Li NS,Luo XJ,Peng J.Arctiin protects rat heart against ischemia/reperfusion injury via a mechanism involving reduction of necroptosis.Eur J Pharmacol.2020 May 15;875:173053.doi:10.1016/j.ejphar.2020.173053.Epub 2020 Mar 2.PMID:32135123.
2. PubMed ID: 33675785, Tu H,Zhou YJ,Tang LJ,Xiong XM,Zhang XJ,Ali Sheikh MS,Zhang JJ,Luo XJ,Yuan C,Peng J. Combination of ponatinib with

deferroxamine synergistically mitigates ischemic heart injury via simultaneous prevention of necroptosis and ferroptosis. Eur J Pharmacol.2021 Mar 3;898:173999.doi:10.1016/j.ejphar.2021.173999.Epub ahead of print.PMID:33675785.

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