

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
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

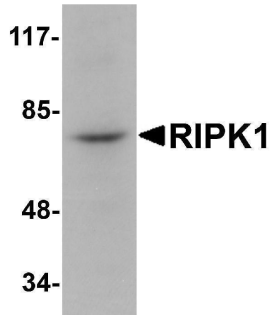
Technical Details

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
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	RIPK1 Antibody is affinity chromatography purified via peptide column.

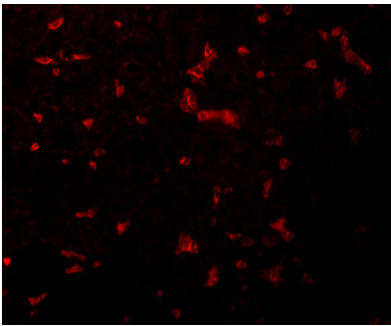
Suggested Dilutions

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.

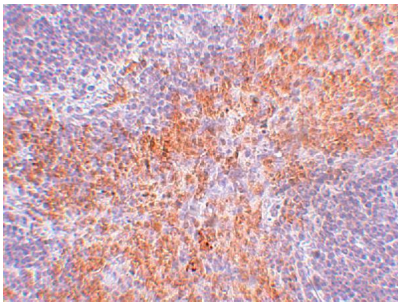
Anti-RIPK1 Antibody (A00141-1) Images



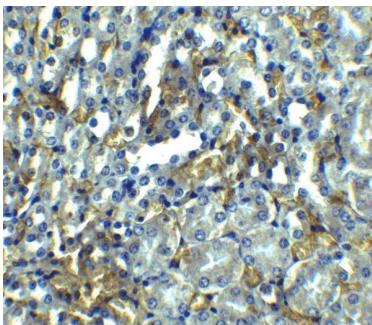
Western blot analysis of RIPK1 in rat kidney tissue lysate with RIPK1 antibody at 1 ug/mL.



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.



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

deferoxamine 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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Anti-RIPK1 Antibody

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