BOSTER BIOLOGICAL TECHNOLOGY
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Anti-RIP/RIPK1 Antibody Picoband®

Catalog Number: PA2051

About RIPK1

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.

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Overview

Product Name	Anti-RIP/RIPK1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-RIP/RIPK1 Antibody catalog # PA2051. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13546

Technical Details

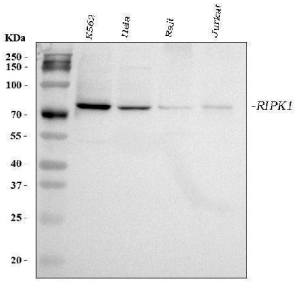
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human RIP.

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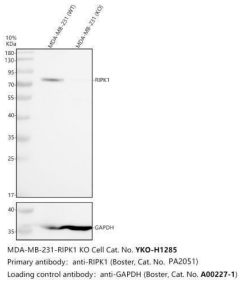
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

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Anti-RIP/RIPK1 Antibody Picoband® (PA2051) Images



Western blot analysis of RIPK1 using anti-RIPK1 antibody (PA2051). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human Raji whole cell lysates, Lane 4: human Jurkat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RIPK1 antigen affinity purified polyclonal antibody (Catalog # PA2051) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for RIPK1 at approximately 76 kDa. The expected band size for RIPK1 is at 76 kDa.



Western blot analysis of RIPK1 using anti-RIPK1 antibody (PA2051). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MDA-MB-231- WT whole cell lysates, Lane 2: human MDA-MB-231-RIPK1 KO whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RIPK1 antigen affinity purified polyclonal antibody (PA2051) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for RIPK1 at approximately 76 kDa. The expected band size for RIPK1 is at 76 kDa.

2 Publications Citing This Product

1. PubMed ID: 25674205, Chen Yf, Zhao Zq, Wu Zm, Zou Zy, Luo Xj, Li J, Xie C, Liang Y. Int J Clin Exp Pathol. 2014 Dec 1;7(12):8411-20. Ecollection 2014. The Role Of Rip1 And Rip3 In The Development Of Aplastic Anemia Induced By Cyclophosphamide And Busulphan In Mice.

2. PubMed ID: 27464624, Bifidobacterial recombinant thymidine kinase-ganciclovir gene therapy system induces FasL and TNFR2 mediated antitumor apoptosis in solid tumors

Visit bosterbio.com/anti-rip-antibody-pa2051-boster.html to see all 2 publications.

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For Research Use Only. Not for use in diagnostic procedures.