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Datasheet for 600-401-EA3

RIPK1 Antibody

Overview

Description:	Anti-RIPK1 (RABBIT) Antibody - 600-401-EA3
Item No.:	600-401-EA3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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 signaling to NFk-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-kB activation. RIPK1-deficient mice fail to thrive, displaying extensive apoptosis in both lymphoid and adipose tissues and dying at 1-3 days of age.
Synonyms:	RIPK1 Antibody, RIP, RIP1, RIP, Cell death protein RIP, RIP-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RIPK1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-RIPK1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the N-terminus of human RIPK1.
Purity/Specificity:	Anti-RIPK1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with RIPK1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q13546 • GeneID - 8737 • NCBI - NP_003795

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-RIPK1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 76 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

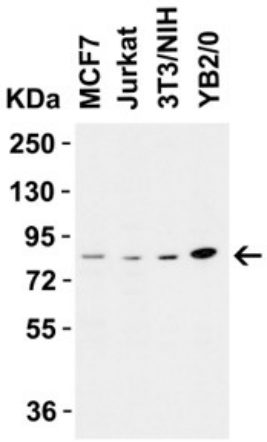
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

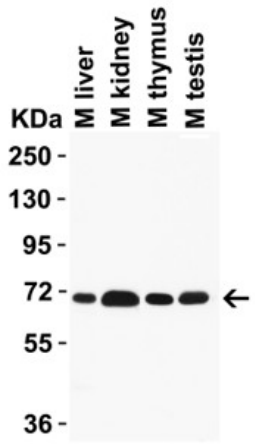
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

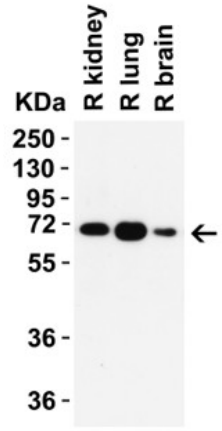
Images



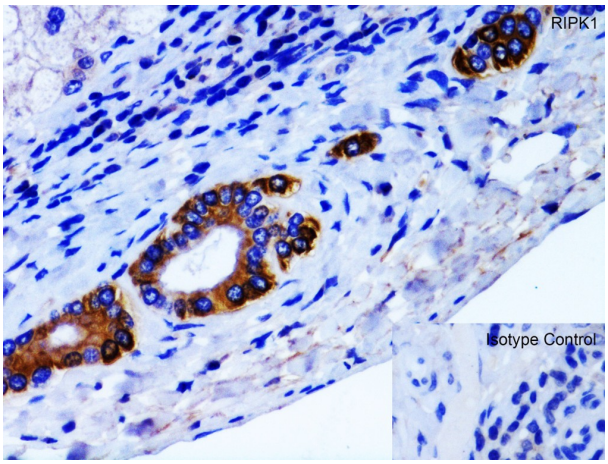
Western Blot
Western blot using RIPK1. Loading: 15 µg of Human, Mouse and Rat Cell lysate. Antibodies: RIPK1, 2 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



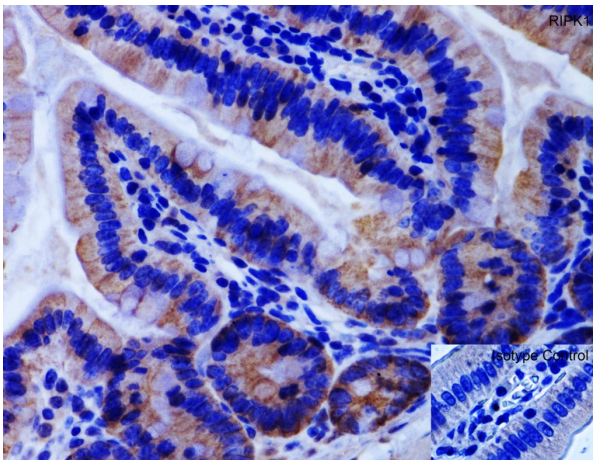
Western Blot
Western blot using RIPK1. Loading: 15 µg of mouse tissue lysate Antibodies: RIPK1, 2 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



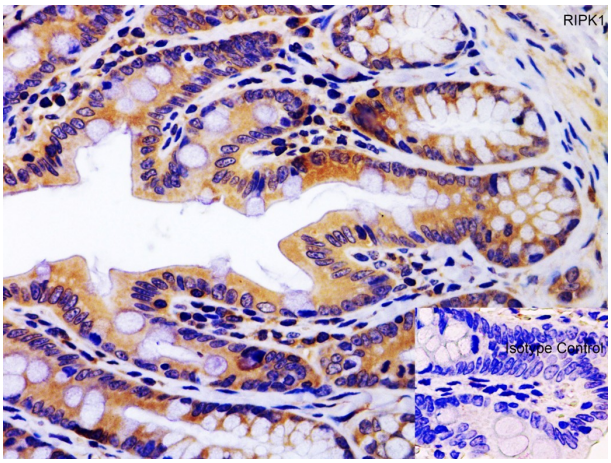
Western Blot
Western blot using RIPK1. Loading: 15 µg of rat tissue lysate. Antibodies: RIPK1, 2 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



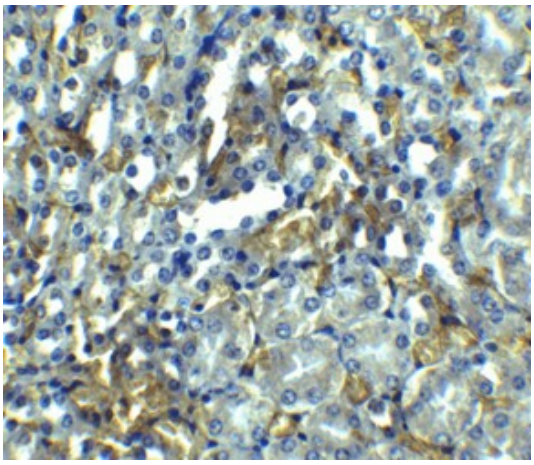
Immunohistochemistry
Immunohistochemistry Validation of RIPK1. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-RIPK1 antibody at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



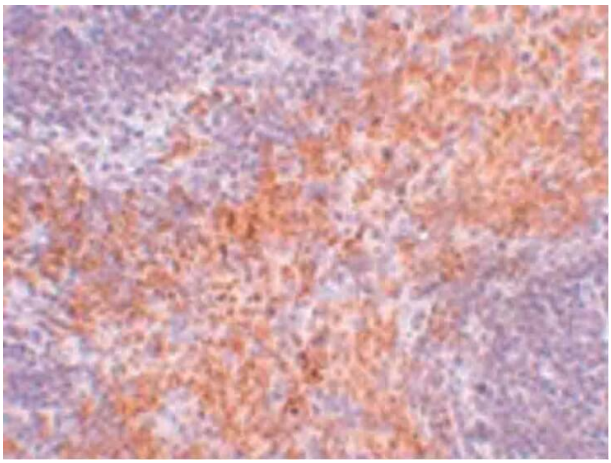
Immunohistochemistry
Immunohistochemistry Validation of RIPK1. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-RIPK1 antibody at 1 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



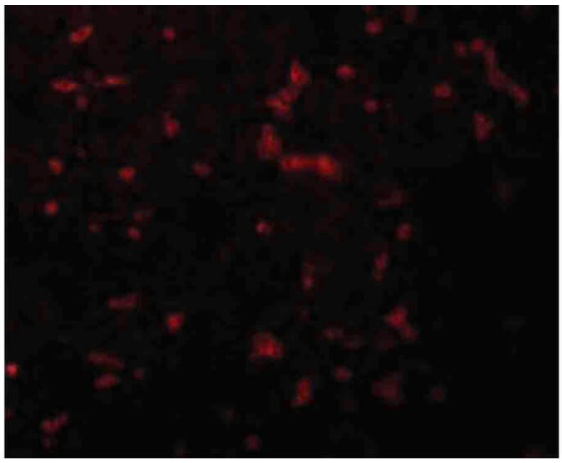
Immunohistochemistry
Immunohistochemistry Validation of RIPK1. Immunohistochemical analysis of paraffin-embedded rat colon tissue using anti-RIPK1 antibody at 1 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



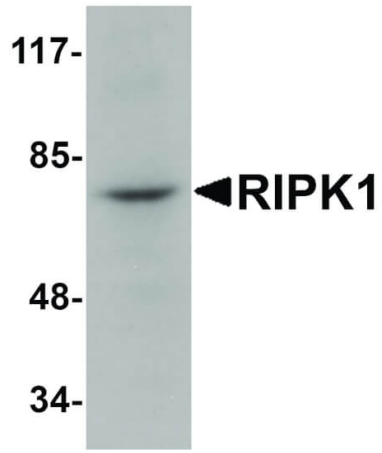
Immunohistochemistry
Immunohistochemistry Validation of RIPK1. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using antibody at 2.5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunohistochemistry
Immunohistochemistry of RIPK1 antibody. Tissue: mouse kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: RIPK1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: RIPK1 is cytoplasmic. Staining: RIPK1 as precipitated brown signal with purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of RIPK1 antibody. Tissue: mouse kidney cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: RIPK1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: RIPK1 is cytoplasmic. Staining: RIPK1 as red fluorescent signal.



Western Blot
Western Blot of RIPK1 antibody. Lane 1: rat kidney tissue lysate with RIPK1 antibody at 1 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 76 kDa, 76 kDa for RIPK1. Other band(s): RIPK1 splice variants and isoforms.

Disclaimer

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