

Rabbit anti-Human, Rat RIPK3 Polyclonal Antibody | anti-RIPK3 antibody

Phospho-RIPK3 (Ser199) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329355	Rabbit	Human, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

RIPK3; Polyclonal Antibody; Phospho-RIPK3 (Ser199) Antibody; Receptor interacting protein 3; Receptor interacting serine threonine kinase 3; Receptor interacting serine/threonine protein kinase 3; Receptor-interacting protein 3; Receptor-interacting serine/threonine-protein kinase 3; RIP 3; RIP like protein kinase 3; RIP-3; RIP-like protein kinase 3; RIPK 3; RIPK3_HUMAN; anti-RIPK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-RIPK3 (Ser199) Antibody detects endogenous levels of RIPK3 only when phosphorylated at Ser199. Tissue Specificity: Highly expressed in the pancreas. Detected at lower levels in heart, placenta, lung and kidney. Isoform 3 is significantly increased in colon and lung cancers.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-RIPK3 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	A synthesized peptide derived from human RIPK3 around the phosphorylation site of Ser199.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	RIPK1 and RIPK3 undergo reciprocal auto- and trans-phosphorylation. Phosphorylation of Ser-199 plays a role in the necroptotic function of RIPK3. Phosphorylation at Ser-227 is required for binding MLKL. Phosphorylation at Thr-182 is important for its kinase activity, interaction with PELI1 and PELI1-mediated 'Lys-48'-linked polyubiquitination and for its ability to mediate TNF-induced necroptosis. Polyubiquitinated with 'Lys-48' and 'Lys-63'-linked chains by BIRC2/c-IAP1 and BIRC3/c-IAP2, leading to activation of NF-kappa-B. Polyubiquitinated with 'Lys-48'-linked chains by PELI1 leading to its subsequent proteasome-dependent degradation. Ubiquitinated by STUB1 leading to its subsequent proteasome-dependent degradation.
Subunit Structure	Interacts (via RIP homotypic interaction motif) with RIPK1 (via RIP homotypic interaction motif); this interaction induces RIPK1 phosphorylation and formation of a RIPK1-RIPK3 necrosis-inducing complex. Upon TNF-induced necrosis, the RIPK1-RIPK3 dimer further interacts with PGAM5 and MLKL; the formation of this complex leads to PGAM5 phosphorylation and increase in PGAM5 phosphatase activity. Interacts with MLKL; the interaction is direct. Binds TRAF2 and is recruited to the TNFR-1 signaling complex. Interacts with PYGL, GLUL and GLUD1; these interactions result in activation of these metabolic enzymes. Interacts with BIRC2/c-IAP1, BIRC3/c-IAP2 and XIAP/BIRC4. Interacts with ARHGEF2. Interacts with PELI1 (via atypical FHA domain); the phosphorylated form at Thr-182 binds preferentially to PELI1. Interacts with BUB1B, TRAF2 and STUB1. Interacts with ZBP1 (By similarity).
Similarity	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.

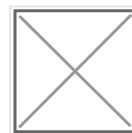
Subcellular Location	Cytoplasm>Cytosol. Cell membrane. Mitochondrion.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining Hela cells(heat shock treatment) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF3894) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI (blue).



IHC (Immunohistochemistry)

At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RIPK3 antibody	Essential for necroptosis, a programmed cell death process in response to death-inducing TNF-alpha family members. Upon induction of necrosis, RIPK3 interacts with, and phosphorylates RIPK1 and MLKL to form a necrosis-inducing complex. RIPK3 binds to and enhances the activity of three metabolic enzymes: GLUL, GLUD1, and PYGL. These metabolic enzymes may eventually stimulate the tricarboxylic acid cycle and oxidative phosphorylation, which could result in enhanced ROS production.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	205371831
NCBI GeneID	11035
UniProt Accession #	Q9Y572; Q5J795; Q5J796; Q6P5Y1; B4DJL9; C4AM87
Molecular Weight	518
NCBI Official Full Name	Receptor-interacting serine/threonine-protein kinase 3
NCBI Official Synonym Full Names	receptor-interacting serine-threonine kinase 3
NCBI Official Symbol	RIPK3
NCBI Official Synonym Symbols	RIP3
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 3; RIP-3; RIP-like protein kinase 3; receptor interacting protein 3; receptor-interacting protein 3
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 3
UniProt Gene Name	RIPK3
UniProt Synonym Gene Names	RIP3; RIP-3
UniProt Entry Name	RIPK3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ripk3-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-immunohistochemistry-elisa/329355>