

Rabbit RIPK2 Polyclonal Antibody | anti-RIPK2 antibody

RIPK2 Antibody

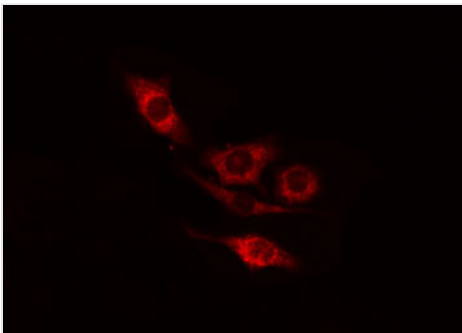
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323517	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RIPK2; Polyclonal Antibody; RIPK2 Antibody; CARD 3; CARD carrying kinase; CARD containing ICE associated kinase; CARD containing IL 1 beta ICE kinase; CARD containing IL1 beta ICE kinase; CARD containing interleukin 1 beta converting enzyme (ICE) associated kinase; CARD containing interleukin 1 beta converting enzyme associated kinase; CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta-converting enzyme-associated kinase; CARD3; CARDIAK; CCK; CLARP kinase; GIG 30; GIG30; Growth inhibiting gene 30; Receptor interacting protein (RIP) like interacting caspase like apoptosis regulatory protein (CLARP) kinase; Receptor interacting protein 2; Receptor interacting serine threonine kinase 2; Receptor interacting serine/threonine protein kinase 2; Receptor-interacting protein 2; Receptor-interacting serine/threonine-protein kinase 2; RICK; RIP 2; RIP like interacting CLARP kinase; RIP-2; RIP-like-interacting CLARP kinase; RIPK 2; Ripk2; RIPK2_HUMAN; TNFRSF; Tyrosine-protein kinase RIPK2; UNQ277/PRO314/PRO34092; anti-RIPK2 antibody

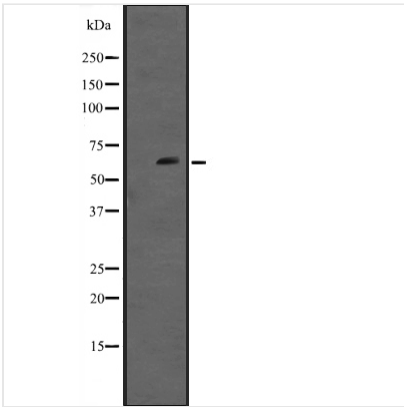
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RIPK2 antibody detects endogenous levels of total RIPK2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	540
Applicable Applications for anti-RIPK2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm.
Tissue Specificity	Detected in heart, brain, placenta, lung, peripheral blood leukocytes, spleen, kidney, testis, prostate, pancreas and lymph node.
Conjugation	Unconjugated



IF (Immunofluorescence)

AAA323517 staining 293 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of RIPK2 expression in A431 whole cell lysate, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RIPK2 antibody

Description: Activates pro-caspase-1 and pro-caspase-8. Potentiates CASP8-mediated apoptosis. Activates NF-kappa-B.

Function: Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NEMO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NEMO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation.

Subunit Structure: Found in a signaling complex consisting of at least ARHGEF2, NOD2 and RIPK2. Interacts with ARHGEF2; the interaction mediates tyrosine phosphorylation of RIPK2 by Src kinase CSK. Binds to CFLAR/CLARP and CASP1 via their CARD domains. Binds to BIRC3/c-IAP1 and BIRC2/c-IAP2, TRAF1, TRAF2, TRAF5 and TRAF6. May be a component of both the TNFRSF1A and TNFRSF5/CD40 receptor complex. Interacts with NOD1. Interacts (via CARD domain) with NOD2 (via CARD domain). Interacts with MAP3K4; this interaction sequesters RIPK2 from the NOD2 signaling pathway. Interacts with IKBKG/NEMO. The polyubiquitinated protein interacts with MAP3K7/TAK1. Interacts with XIAP/BIRC4. Interacts with NLRP10. Interacts with CARD9. Interacts with INAVA; the interaction takes place upon PRR stimulation (PubMed:28436939).

Post-translational Modifications: Autophosphorylated. Autophosphorylation at Tyr-474 is necessary for effective NOD2 signaling. Phosphorylated. Phosphorylation at Tyr-381 by Src kinase CSK occurs in a ARHGEF2-dependent manner and is required for NOD2-dependent innate immune activation. Ubiquitinated on Lys-209; undergoes 'Lys-63'-linked polyubiquitination catalyzed by ITCH. Polyubiquitinated with 'Lys-48' and 'Lys-63'-linked chains by BIRC2/c-IAP1 and BIRC3/c-IAP2, leading to activation of NF-kappa-B. Also undergoes 'Met-1'-linked polyubiquitination; the head-to-tail linear polyubiquitination is mediated by the LUBAC complex in response to NOD2 stimulation. Linear polyubiquitination is restricted by FAM105B/otulin, probably to limit NOD2-dependent proinflammatory signaling activation of NF-kappa-B.

Similarity: Contains an N-terminal kinase domain and a C-terminal caspase activation and recruitment domain (CARD) that mediates the recruitment of CARD-containing proteins. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506537
NCBI GeneID	8767
NCBI Accession #	NP_003812.1

NCBI GenBank Nucleotide #	NM_003821.5
UniProt Accession #	O43353; Q6UWF0; B7Z748
Molecular Weight	Observed: 60 kDa Predicted: 62 kDa
NCBI Official Full Name	receptor-interacting serine/threonine-protein kinase 2
NCBI Official Synonym Full Names	receptor interacting serine/threonine kinase 2
NCBI Official Symbol	RIPK2
NCBI Official Synonym Symbols	CCK; RICK; RIP2; CARD3; GIG30; CARDIAK
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 2
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 2
UniProt Gene Name	RIPK2
UniProt Synonym Gene Names	CARDIAK; RICK; RIP2; CARD-containing IL-1 beta ICE-kinase; RIP-2

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/ripk2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323517>