RIPK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIPK1, Polyclonal Antibody
Full Product Name	RIPK1 Rabbit Polyclonal Antibody
Product Gene Name	anti-RIPK1 antibody
Product Synonym Gene Name	RIP, RIP1
Product Synonym Names	BH6842; Receptor-interacting serine/threonine-protein kinase 1 (EC 2.7.11.1)(Cell death protein RIP)(Receptor-interacting protein 1)(RIP-1)(Serine/threonine-protein kinase RIP)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	RIPK1 Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	70,733 Da
OMIM	603453
3D Structure	ModBase 3D Structure for Q13546
Immunogen	Synthesized peptide derived from part region of human protein
Modification	Unmodified/Total
Applications Tested/Suitable for anti-RIPK1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RIPK1 antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-RIPK1 antibody	MBS9516634 is an antibody targeting RIPK1. Also known as RIPK1 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-RIPK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIPK1. It may not necessarily be applicable to this product.

NCBI GI #	57242761
NCBI GeneID	8737
NCBI Accession #	NP_003795

UniProt Primary Accession #	Q13546
UniProt Secondary Accession #	Q13180; Q59H33; A0AV89; B2RAG1; B4E3F9
UniProt Related Accession #	Q13546
GenBank Nucleotide #	NM_003804.3
NCBI Official Full Name	receptor-interacting serine/threonine-protein kinase 1
NCBI Official Synonym Full Names	receptor (TNFRSF)-interacting serine-threonine kinase 1
NCBI Official Symbol	RIPK1
NCBI Official Synonym Symbols	RIP; RIP1
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 1
UniProt Synonym Protein Names	Cell death protein RIP; Receptor-interacting protein 1; RIP-1; Serine/threonine-protein kinase RIP
Protein Family	Receptor-interacting serine/threonine-protein kinase
UniProt Gene Name	RIPK1
UniProt Synonym Gene Names	RIP; RIP1; RIP-1
UniProt Entry Name	RIPK1_HUMAN
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 1; RIP-1; cell death protein RIP; receptor interacting protein; receptor-interacting protein 1; serine/threonine-protein kinase RIP

UniProt Comments for RIPK1	RIPK1: Serine-threonine kinase which transduces inflammatory and cell-death signals (necroptosis) following death receptors ligation, activation of pathogen recognition receptors (PRRs), and DNA damage. Upon activation of TNFR1 by the TNF-alpha family cytokines, TRADD and TRAF2 are recruited to the receptor. Ubiquitination by TRAF2 via 'Lys-63'-link chains acts as a critical enhancer of communication with downstream signal transducers in the mitogen-activated protein kinase pathway and the NF-kappa-B pathway, which in turn mediate downstream events including the activation of genes encoding inflammatory molecules. Polyubiquitinated protein binds to IKBKG/NEMO, the regulatory subunit of the IKK complex, a critical event for NF-kappa-B activation. Interaction with other cellular RHIM-containing adapters initiates gene activation and cell death. RIPK1 and RIPK3 association, in particular, forms a necroptosis-inducing complex. Interacts (via RIP homotypic interaction motif) with RIPK3 (via RIP homotypic interaction motif); this interaction induces RIPK1 necroptosis-specific phosphorylation, formation of the necroptosis-inducing complex. Interacts (via the death domain) with TNFRSF6 (via the death domain) and TRADD (via the death domain). Is recruited by TRADD to TNFRSF1A in a TNF-dependent process. Binds RNF216, EGFR, IKBKG, TRAF1, TRAF2 and TRAF3. Interacts with BNLF1. Interacts with SQSTM1 upon TNF-alpha stimulation. May interact with MAVS/IPS1. Interacts with ZFAND5. Interacts with RBCK1. Interacts with BIRC2/c-IAP1, BIRC3/c-IAP2 and XIAP/BIRC4. Inhibited by necrostatin-1. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protein kinase, Ser/Thr (non-receptor); Kinase, protein; EC 2.7.11.1; Protein kinase, TKL; TKL group; RIPK family Chromosomal Location of Human Ortholog: 6p25.2 Cellular Component: mitochondrion; cytoplasm; cytosol; receptor complex; lipid raft Molecular Function: identical protein binding; protein serine/threonine kinase activity; protein binding; ubiquitin protein ligase binding; death receptor binding; protein complex binding; ATP binding; protein kinase activity Biological Process: caspase activation; positive regulation of I-kappaB kinase/NF-kappaB cascade; protein heterooligomerization; positive regulation of apoptosis; apoptosis; MyD88-independent toll-like receptor signaling pathway; protein amino acid autophosphorylation; positive regulation of JNK cascade; negative regulation of I-kappaB kinase/NF-kappaB cascade; toll-like receptor 3 signaling pathway; positive regulation of tumor necrosis factor production; activation of JNK activity; activation of NF-kappaB transcription factor; positive regulation of interleukin-8 production; positive regulation of programmed cell death; tumor necrosis factor-mediated signaling pathway; cellular protein catabolic process; toll-like receptor signaling pathway; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; positive regulation of macrophage differentiation; toll-like receptor 4 signaling pathway; protein homooligomerization
Research Articles on RIPK1	**1.** The mechanism by which FLIP nitrosylation regulates NF-kappaB activity involves RIP1 binding and redistribution, whereas TRAF2 binding and distribution are unaffected.
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