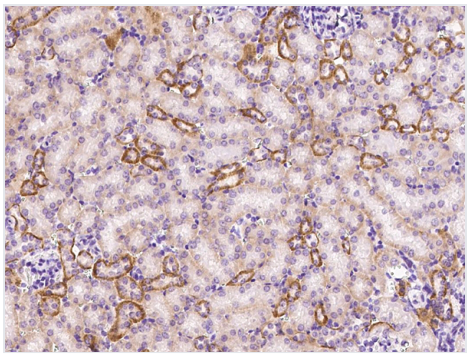
RIPK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIPK1/RIP1, Polyclonal Antibody
Full Product Name	Anti-RIPK1/RIP1 Antibody, Rabbit Polyclonal
Product Gene Name	anti-RIPK1 antibody
Product Synonym Names	RIPK1/RIP1 Antibody, Rabbit PAb, Antigen Affinity Purified; receptor (TNFRSF)-interacting serine-threonine kinase 1; Anti-D330015H01Rik Antibody; Anti-Rinp Antibody; Anti-RIP Antibody; Anti-Rip1 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Mouse RIPK1/RIP1
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	74,854 Da
3D Structure	ModBase 3D Structure for Q60855
Immunogen	A synthetic peptide corresponding to the center region of the Mouse RIPK1/RIP1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse RIPK1/RIP1, and purified by antigen affinity chromatography.
Product Categories/Family for anti-RIPK1 antibody	Apoptosis Adaptor Proteins; Death Receptor Signaling
Applications Tested/Suitable for anti-RIPK1 antibody	Immunohistochemistry-Paraffin (IHC-P)
Application Notes for anti-RIPK1 antibody	IHC-P: 1:500-1:2000
Related Product Information for anti-RIPK1 antibody	The receptor-interacting protein kinase 1 (RIPK1) is an essential signaling molecule in pathways for cell survival, apoptosis, and necroptosis. RIPK1-mediated cell proliferation through MCU is a central mechanism underlying colorectal cancer progression and may prove to be an important therapeutic target for colorectal cancer treatment. Parkin with Receptor-interacting protein kinase 1 (RIPK1) kinase, a key mediator of multiple signaling pathways activated by TNFR1 including NF-kappaB pathway. RIPK1-mediated mitochondrial dysfunction and oxidative stress play a crucial role in NP cells necroptosis and apoptosis during compression injury. The synergistic regulation of necroptosis and apoptosis may exert more beneficial effects on NP cells survival, and ultimately delaying or even retarding intervertebral disc degeneration.
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.

Searchable Terms for RIPK1 purchase	MBS8103441 is an antibody targeting RIPK1. Also known as Anti-RIPK1/RIP1 Antibody, Rabbit Polyclonal. Reactive in Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-RIPK1 antibody
Immunochemical staining of mouse RIPK1 in mouse kidney with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL DETAILS

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

NCBI GI #	34328467
NCBI GeneID	19766
NCBI Accession #	NP_033094.3
UniProt Primary Accession #	Q60855
UniProt Secondary Accession #	Q3U0J3; Q8CD90
UniProt Related Accession #	Q60855
GenBank Nucleotide #	NM_009068.3
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; Rinp; Rip1; D330015H01Rik
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	Rinp; Rip; RIP-1
UniProt Entry Name	RIPK1_MOUSE
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 1; RIP-1; cell death protein RIP; 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, TKL; Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); TKL group; RIPK family Cellular Component: protein complex; mitochondrion; membrane; cytoplasm; plasma membrane; receptor complex; lipid raft Molecular Function: transferase activity; identical protein binding; protein serine/threonine kinase activity; protein binding; ubiquitin protein ligase binding; death receptor binding; transferase activity, transferring phosphorus-containing groups; protein complex binding; nucleotide binding; kinase activity; ATP binding; protein kinase activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; viral reproduction; positive regulation of apoptosis; protein heterooligomerization; apoptosis; protein amino acid autophosphorylation; programmed cell death; positive regulation of JNK cascade; negative regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of transferase activity; signal transduction; positive regulation of tumor necrosis factor production; protein amino acid phosphorylation; activation of NF-kappaB transcription factor; positive regulation of interleukin-8 production; positive regulation of programmed cell death; positive regulation of MAPKKK cascade; cellular protein catabolic process; positive regulation of transcription from RNA polymerase II promoter; positive regulation of protein amino acid phosphorylation; positive regulation of macrophage differentiation; phosphorylation; positive regulation of phosphorylation; protein homooligomerization
Research Articles on RIPK1	**1.** RIP1 kinase activity is dispensable for normal development but is a key regulator of inflammation in SHARPIN-deficient mice.
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