RIPK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIPK3, Polyclonal Antibody
Full Product Name	RIPK3 Antibody, HRP conjugated
Product Gene Name	anti-RIPK3 antibody
Product Synonym Names	Receptor-interacting serine/threonine-protein kinase 3 (EC:2.7.11.1); RIPK3; RIP3; RIP-like protein kinase 3; Receptor-interacting protein 3; RIP-3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: RIPK3 (MBS1497864) HRP Conjugated Antibody: RIPK3 (MBS1498140)
Molecular Weight	25,326 Da
OMIM	605817
3D Structure	ModBase 3D Structure for Q9Y572
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human Receptor-interacting serine/threonine-protein kinase 3 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-47368 / sc-135171
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RIPK3 antibody	ELISA (EIA)
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.
Other Notes	Small volumes of anti-RIPK3 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 RIPK3 purchase	MBS1498140 is an antibody targeting RIPK3. Also known as RIPK3 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIPK3. It may not necessarily be applicable to this product.

NCBI GI #	40254844
NCBI GeneID	11035
NCBI Accession #	NP_006862.2
UniProt Primary Accession #	Q9Y572
UniProt Secondary Accession #	Q5J795; Q5J796; Q6P5Y1; B4DJL9; C4AM87
UniProt Related Accession #	Q9Y572
GenBank Nucleotide #	NM_006871.3
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
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 3
UniProt Synonym Protein Names	RIP-like protein kinase 3; Receptor-interacting protein 3; RIP-3
Protein Family	Receptor-interacting serine/threonine-protein kinase
UniProt Gene Name	RIPK3
UniProt Synonym Gene Names	RIP3; RIP-3
UniProt Entry Name	RIPK3_HUMAN
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 3
NCBI Summary for RIPK3	The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor. [provided by RefSeq, Jul 2008]
UniProt Comments for RIPK3	RIPK3: Promotes apoptosis. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Binds TRAF2 and RIPK1 and is recruited to the TNFR-1 signaling complex. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Kinase, protein; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; TKL group; RIPK family Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: cytosol; mitochondrion; plasma membrane Molecular Function: ATP binding; identical protein binding; NF-kappaB-inducing kinase activity; protein binding; protein complex binding; protein kinase activity; protein serine/threonine kinase activity; transcription coactivator activity Biological Process: activation of NF-kappaB transcription factor; activation of protein kinase activity; I-kappaB kinase/NF-kappaB cascade; innate immune response; lymph node development; MyD88-independent toll-like receptor signaling pathway; positive regulation of interferon type I production; positive regulation of ligase activity; positive regulation of oxidoreductase activity; programmed cell death; protein amino acid autophosphorylation; protein heterooligomerization; protein homooligomerization; protein modification process; regulation of activated T cell proliferation; regulation of adaptive immune response; regulation of interferon-gamma production; regulation of T cell mediated cytotoxicity; signal transduction; spleen development; T cell differentiation in the thymus; T cell homeostasis; thymus development; toll-like receptor 3 signaling pathway; toll-like receptor 4 signaling pathway; toll-like receptor signaling pathway

Research Articles on RIPK3	**1.** Data suggest that neoalbaconol-induced necroptosis include receptor interacting serine/threonine kinase 1-dependent expression of tumor necrosis factor alpha and receptor interacting serine/threonine kinase 3-dependent generation of reactive oxygen species.
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