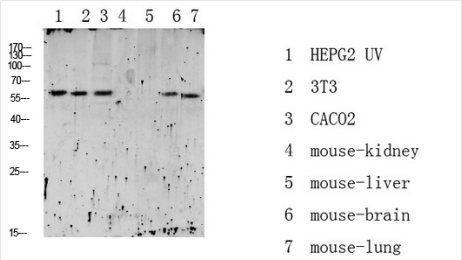
RIPK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIPK2, Polyclonal Antibody
Full Product Name	RIPK2 (Phospho-Ser176) Antibody
Product Gene Name	anti-RIPK2 antibody
Product Synonym Names	Receptor-interacting serine/threonine-protein kinase 2 (EC 2.7.11.1)(CARD-containing interleukin-1 beta-converting enzyme-associated kinase)(CARD-containing IL-1 beta ICE-kinase)(RIP-like-interacting CLARP kinase)(Receptor-interacting protein 2)(RIP-2)(Tyrosine-protein kinase RIPK2)(EC 2.7.10.2)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	61,195 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (90769975..90803292). Location: 8q21
OMIM	603455
3D Structure	ModBase 3D Structure for O43353
Applications Tested/Suitable for anti-RIPK2 antibody	Western Blot (WB)
Related Product Information for anti-RIPK2 antibody	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.
Other Notes	Small volumes of anti-RIPK2 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 RIPK2 purchase	MBS9242548 is an antibody targeting RIPK2. Also known as RIPK2 (Phospho-Ser176) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-RIPK2 antibody
Dilution: WB 1:500-2000, ELISA 1:10000-20000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIPK2. It may not necessarily be applicable to this product.

NCBI GI #	4506537
NCBI GeneID	8767
NCBI Accession #	NP_003812.1
UniProt Primary Accession #	O43353
UniProt Secondary Accession #	Q6UWF0
UniProt Related Accession #	O43353
GenBank Nucleotide #	NM_003821.5
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
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 2
UniProt Synonym Protein Names	CARD-containing interleukin-1 beta-converting enzyme-associated kinase; CARD-containing IL-1 beta ICE-kinase; RIP-like-interacting CLARP kinase; Receptor-interacting protein 2; RIP-2; Tyrosine-protein kinase RIPK2
Protein Family	Receptor-interacting serine/threonine-protein kinase
UniProt Gene Name	RIPK2
UniProt Synonym Gene Names	CARDIAK; RICK; RIP2; CARD-containing IL-1 beta ICE-kinase; RIP-2
UniProt Entry Name	RIPK2_HUMAN
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 2; RIP-2; CARD-carrying kinase; growth-inhibiting gene 30; tyrosine-protein kinase RIPK2; receptor-interacting protein 2; CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta-convert
NCBI Summary for RIPK2	This gene encodes a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases. The encoded protein contains a C-terminal caspase activation and recruitment domain (CARD), and is a component of signaling complexes in both the innate and adaptive immune pathways. It is a potent activator of NF-kappaB and inducer of apoptosis in response to various stimuli. [provided by RefSeq, Jul 2008]

UniProt Comments for RIPK2	RIPK2: a tyrosine kinase-like kinase of the RIPK family. Activates pro-caspase-1 and pro-caspase-8. Potentiates casp-8-mediated apoptosis. May activate NF-kappaB. Protein type: EC 2.7.10.2; Kinase, protein; Protein kinase, TKL; EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); TKL group; RIPK family Chromosomal Location of Human Ortholog: 8q21 Cellular Component: cytoskeleton; protein complex; cytoplasm; cytosol; vesicle Molecular Function: protein serine/threonine kinase activity; signal transducer activity; LIM domain binding; protein binding; protein homodimerization activity; non-membrane spanning protein tyrosine kinase activity; CARD domain binding; ATP binding Biological Process: I-kappaB kinase/NF-kappaB cascade; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; activation of MAPK activity; apoptosis; positive regulation of interleukin-12 production; stress-activated MAPK cascade; positive regulation of JNK cascade; toll-like receptor 3 signaling pathway; signal transduction; T cell receptor signaling pathway; toll-like receptor 10 signaling pathway; activation of NF-kappaB transcription factor; T cell proliferation; toll-like receptor 5 signaling pathway; response to exogenous dsRNA; positive regulation of immature T cell proliferation; lipopolysaccharide-mediated signaling pathway; positive regulation of interferon-beta production; JNK cascade; inflammatory response; toll-like receptor 4 signaling pathway; positive regulation of interferon-alpha production; adaptive immune response; positive regulation of I-kappaB kinase/NF-kappaB cascade; MyD88-independent toll-like receptor signaling pathway; positive regulation of interleukin-6 production; positive regulation of tumor necrosis factor production; positive regulation of peptidyl-serine phosphorylation; positive regulation of chemokine production; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interferon-gamma production; positive regulation of peptidyl-tyrosine phosphorylation; defense response to Gram-positive bacterium; positive regulation of protein ubiquitination; positive regulation of interleukin-2 production; toll-like receptor signaling pathway; innate immune response; positive regulation of alpha-beta T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; positive regulation of cytokine and chemokine mediated signaling pathway; positive regulation of T-helper 1 cell differentiation; negative regulation of apoptosis
Research Articles on RIPK2	**1.** Data suggest that ubiquitin (Ub) binding provides a negative feedback loop upon NOD1 and NOD2 (nucleotide-binding oligomerization domain-containing proteins)-dependent activation of receptor-interacting protein kinase 2 (RIP2).
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