Receptor Interacting Serine Threonine Kinase 2 (RIPK2) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Receptor Interacting Serine Threonine Kinase 2 (RIPK2), ELISA Kit
Full Product Name	Chicken Receptor Interacting Serine Threonine Kinase 2 ELISA Kit
Product Gene Name	RIPK2 elisa kit
Species Reactivity	Chicken
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
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
Related Product Information for RIPK2 elisa kit	MBS042318 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Receptor Interacting Serine Threonine Kinase 2 (RIPK2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RIPK2. The ELISA analytical biochemical technique of the MBS042318 kit is based on RIPK2 antibody-RIPK2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RIPK2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RIPK2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RIPK2 elisa kit 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 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-converting enzyme (ICE)-associated kinase; receptor-interacting protein (RIP)-like interacting caspase-like apoptosis regulatory protein (CLARP) kinase
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; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; Protein kinase, TKL; EC 2.7.11.1; TKL group; RIPK family Chromosomal Location of Human Ortholog: 8q21 Cellular Component: protein complex; cytoskeleton; 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; activation of MAPK activity; positive regulation of interleukin-12 production; apoptosis; positive regulation of apoptosis; 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; positive regulation of interferon-beta production; lipopolysaccharide-mediated signaling pathway; 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; toll-like receptor signaling pathway; positive regulation of interleukin-2 production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of alpha-beta T cell proliferation; toll-like receptor 9 signaling pathway; positive regulation of T-helper 1 cell differentiation; positive regulation of cytokine and chemokine mediated signaling pathway; 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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