Recombinant Full Length Mouse RIPK1 Protein (1-656 aa), His-SUMOSTAR-tagged

Cat. No. RIPK1-2252M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse RIPK1 Protein (1-656 aa) is produced by Yeast expression system. This protein is fused with a 6xHis-SUMOSTAR tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length.
Species	Mouse
Source	Yeast
ProteinLength	1-656 aa
Description	Serine-threonine kinase which transduces inflammatory and cell-death signals (programmed necrosis) 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. Phosphorylates DAB2IP at 'Ser-728' in a TNF-alpha-dependent manner, and thereby activates the MAP3K5-JNK apoptotic cascade. 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 necrosis-inducing

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	complex. Interacts with ARHGEF2.
Form	Tris-based buffer,50% glycerol
Molecular Mass	88 kDa
AA Sequence	MQPDMSLDNIKMASSDLLEKTDLDSGGFGKVSLCYHRSHGFVILKKVYTGPNRAEY NEVLLEEGKMMHRLRHSRVVKLLGIIIEEGNYSLVMEYMEKGNLMHVLKTQIDVPLSL KGRIIVEAIEGMCYLHDKGVIHKDLKPENILVDRDFHIKIADLGVASFKTWSKLTKEKD NKQKEVSSTTKKNNGGTLYYMAPEHLNDINAKPTEKSDVYSFGIVLWAIFAKKEPYE NVICTEQFVICIKSGNRPNVEEILEYCPREIISLMERCWQAIPEDRPTFLGIEEEFRPFY LSHFEEYVEEDVASLKKEYPDQSPVLQRMFSLQHDCVPLPPSRSNSEQPGSLHSSQ GLQMGPVEESWFSSSPEYPQDENDRSVQAKLQEEASYHAFGIFAEKQTKPQPRQN EAYNREEERKRRVSHDPFAQQRARENIKSAGARGHSDPSTTSRGIAVQQLSWPAT QTVWNNGLYNQHGFGTTGTGVWYPPNLSQMYSTYKTPVPETNIPGSTPTMPYFSG PVADDLIKYTIFNSSGIQIGNHNYMDVGLNSQPPNNTCKEESTSRHQAIFDNTTSLTD EHLNPIRENLGRQWKNCARKLGFTESQIDEIDHDYERDGLKEKVYQMLQKWLMREG TKGATVGKLAQALHQCCRIDLLNHLIRASQS
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed

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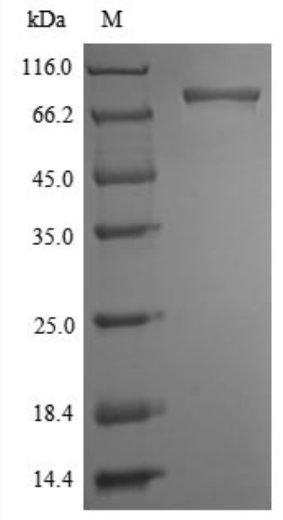
	information.

GENE INFORMATION

Gene Name	Ripk1 receptor (TNFRSF)-interacting serine-threonine kinase 1 [Mus musculus]
Official Symbol	RIPK1
Synonyms	RIPK1; RIP-1; cell death protein RIP; RIP; Rinp; Rip1; D330015H01Rik;
Gene ID	19766
mRNA Refseq	NM_009068
Protein Refseq	NP_033094
UniProt ID	Q60855



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	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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