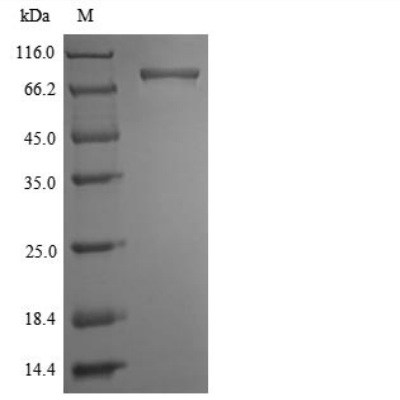
Recombinant Mouse Receptor-interacting serine/threonine-protein kinase 1 (Ripk1)

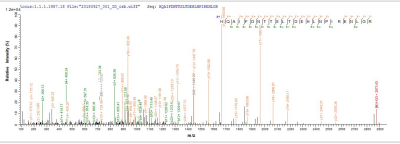
Product Code	CSB-YP720181MO
Relevance	Serine-threonine kinase which transduces inflammatory and cell-death signals (programmed necrosis) following death receptors ligation, activation of pathogen recognition receptors (PRRs), and DNA damage. Upon activation of TNFR1 by the TNF-alpha family cytokines, 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 complex. Interacts with ARHGEF2
Abbreviation	Recombinant Mouse Ripk1 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q60855
Alias	Cell death protein RIP Receptor-interacting protein 1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MQPDMSLDNIKMASSDLLEKTDLDSGGFGKVSLCYHRSHGFVILKKVYTGPNR AEYNEVLLEEGKMMHRLRHSRVVKLLGIIIEEGNYSLVMEYMEKGNLMHVLKT QIDVPLSLKGRIIVEAIEGMCYLHDKGVIHKDLKPENILVDRDFHIKIADLGVASFK TWSKLTKEKDNKQKEVSSTTKKNNGGTLYYMAPEHLNDINAKPTEKSDVYSF GIVLWAIFAKKEPYENVICTEQFVICIKSGNRPNVEEILEYCPREIISLMERCWQA IPEDRPTFLGIEEEFRPFYLSHFEEYVEEDVASLKKEYPDQSPVLQRMFSLQHD CVPLPPSRSNSEQPGSLHSSQGLQMGPVEESWFSSSPEYPQDENDRSVQAK LQEEASYHAFGIFAEKQTKPQPRQNEAYNREEERKRRVSHDPFAQQRARENI KSAGARGHSDPSTTSRGIAVQQLSWPATQTVWNNGLYNQHGFGTTGTGVWY PPNLSQMYSTYKTPVPETNIPGSTPTMPYFSGPVADDLIKYTIFNSSGIQIGNHN YMDVGLNSQPPNNTCKEESTSRHQAIFDNTTSLTDEHLNPIRENLGRQWKNC ARKLGFTESQIDEIDHDYERDGLKEKVYQMLQKWLMREGTKGATVGKLAQAL HQCCRIDLLNHLIRASQS

Research Area	Cell Biology
Source	Yeast
Target Names	Ripk1
Protein Names	Recommended name: Receptor-interacting serine/threonine-protein kinase 1 EC= 2.7.11.1Alternative name(s): Cell death protein RIP Receptor-interacting protein 1 Short name= RIP-1 Serine/threonine-protein kinase RIP
Expression Region	1-656aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMOSTAR-tagged
Mol. Weight	88kDa
Protein Length	Full Length

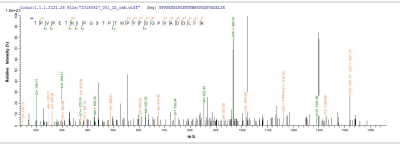
Image



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



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP720181MO could indicate that this peptide derived from Yeast-expressed Mus musculus (Mouse) Ripk1.



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Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.