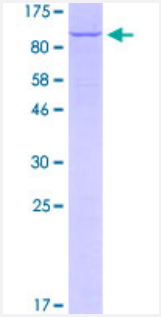
Full-Length

RIPK1 (Human) Recombinant Protein (P01)

Catalog # H00008737-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RIPK1 full-length ORF (ADR83242.1, 1 a.a. - 671 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MQPDMSLNVIKMKSSDFLESAELDSGGFGKVSLCFHRTQGLMIMKTVYKGPNCIEHNEALLEEAK MMNRLRHSRVVKLLGVIIEEGKYSLVMEYMEKGNLMHVLKAEMSTPLSVKGRIILEIIEGMCYLHGK GVIHKDLKPENILVDNDFHIKIADLGLASFKMWSKLNNEEHNELREVDGTAKKNGGTLYYMAPEHL NDVNAKPTEKSDVYSFAVVLWAIFANKEPYENAICEQQLIMCIKSGNRPDVDDITEYCPREIISLMKL CWEANPEARPTFPGIEEKFRPFYLSQLEESVEEDVKSLKKEYSNENAVVKRMQSLQLDCVAVPS SRSNSATEQPGSLHSSQGLGMGPVEESWFAPSLEHPQEENEPSLQSKLQDEANYHLYGSRMD RQTKQQPRQNVAYNREEERRRRVSHDPFAQQRPYENFQNTEGKGTAYSSAASHGNAVHQPSGL TSQPQVLYQNNGLYSSHGFGTRPLDPGTAGPRVWYRPIPSHMPSLHNIPVPETNYLGNTPTMPFS SLPPTDESIKYTIYNSTGIQIGAYNYMEIGGTSSSLLDSTNTNFKEEPAAKYQAIFDNTTSLTDKHLDPI RENLGKHWKNCARKLGFTQSQIDEIDHDYERDGLKEKVYQMLQKWVMREGIKGATVGKLAQALH QCSRIDLLSSLIYVSQN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	100.3
Interspecies Antigen Sequence	Mouse (69); Rat (70)
Preparation Method	*in vitro* wheat germ expression system

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RIPK1

Entrez GeneID	8737
GeneBank Accession#	HQ258488.1
Protein Accession#	ADR83242.1
Gene Name	RIPK1
Gene Alias	FLJ39204, RIP, RIP1
Gene Description	receptor (TNFRSF)-interacting serine-threonine kinase 1
Omim ID	603453
Gene Ontology	Hyperlink
Other Designations	OTTHUMP00000015955|OTTHUMP00000039163|cell death protein RIP|receptor interacting protein|serine/threonine-protein kinase RIP

Publication Reference

- TBK1 and IKKε prevent TNF-induced cell death by RIPK1 phosphorylation.

  Lafont E, Draber P, Rieser E, Reichert M, Kupka S, de Miguel D, Draberova H, von Mässenhausen A, Bhamra A, Henderson S, Wojdyla K, Chalk A, Surinova S, Linkermann A, Walczak H.

  Nature Cell Biology 2018 Dec; 20(12):1389.

  Application: WB-Ce, WB-Tr, Human, A549, HaCaT, U937, THP-1, HeLa cells

- Cardiac protein kinases: the cardiomyocyte kinome and differential kinase expression in human failing hearts.

  Stephen J. Fuller, Sally A. Osborne, Sam J. Leonard, Michelle A. Hardyman, George Vaniotis, Bruce G. Allen, Peter H. Sugden, Angela Clerk.

  Cardiovascular Research 2015 Oct; 108(1):87.

  Application: WB, Rat, Adult ventricular cardiomyocytes(AVMs), Neonatal ventricula rcardiomyocytes (NVMs)

- NIK promotes tissue destruction independently of the alternative NF-κB pathway through TNFR1/RIP1-induced apoptosis.

  Boutaffala L, Bertrand MJ, Remouchamps C, Seleznik G, Reisinger F, Janas M, Benezech C, Fernandes MT, Marchetti S, Mair F, Ganeff C, Hupalowska A, Ricci JE, Becher B, Piette J, Knolle P, Caamano J, Vandenabeele P, Heikenwalder M, Dejardin E.

  Cell Death and Differentiation 2015 Dec; 22(12):2020.

  Application: KA, Mouse, NIK+/+, NIK-/- MEFs

Pathway

- Apoptosis
- Toll-like receptor signaling pathway

Disease

- Adenocarcinoma
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Colorectal Neoplasms
- Diabetes Mellitus

- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Lymphoma
- Lymphoproliferative Disorders
- Neoplasm Metastasis
- Occupational Diseases
- Pancreatic Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome