abcam

Product datasheet

Recombinant human RIP protein (Active) ab190411

4 Images

Description

Product name	Recombinant human RIP protein (Active)
Biological activity	The specific activity of ab190411 was determined to be 4 nmol/min/mg.
Purity	> 70 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	Q13546
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQPDMSLNVI KMKSSDFLES AELDSGGFGK VSLCFHRTQG LMIMKTVYKG PNCIEHNEAL LEEAKMMNRL RHSRVVKLLG VIIEEGKYSL VMEYMEKGNL MHVLKAEMST PLSVKGRIIL EIIEGMCYLH GKGVIHKDLK PENILVDNDF HIKIADLGLA SFKMWSKLNN EEHNELREVD GTAKKNGGTL YYMAPEHLND VNAKPTEKSD VYSFAVVLWA IFANKEPYEN AICEQQLIMC IKSGNRPDVD DITEYCPREI ISLMKLCWEA NPEARPTFPG IEEKFRPFYL SQLEESVEED VKSLKKEYSN ENAVVKRMQS LQLDCVAVPS SRSNSATEQP GSLHSSQGLG MGPVEESWFA PSLEHPQEEN EPSLQSKLQD EANYHLYGSR MDRQTKQQPR QNVAYNREEE RRRRVSHDPF AQQRPYENFQ NTEGKGTAYS SAASHGNAVH QPSGLTSQPQ VLYQNNGLYS SHGFGTRPLD PGTAGPRVWY RPIPSHMPSL HNIPVPETNY LGNTPTMPFS SLPPTDESIK YTIYNSTGIQ IGAYNYMEIG GTSSSLLDST NTNFKEEPAA KYQAIFDNTT SLTDKHLDPI RENLGKHWKN CARKLGFTQS QIDEIDHDYE RDGLKEKVYQ MLQKWVMREG IKGATVGKLA QALHQCSRID LLSSLIYVSQ N
Predicted molecular weight	108 kDa including tags
Amino acids	1 to 671

Tags	GST tag N-Terminus
Additional sequence information	(NM_003804)

Specifications

Our **Abpromise guarantee** covers the use of **ab190411** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot Functional Studies
Form	Liquid
Additional notes	**ab64311** (Myelin Basic Protein protein) can be utilized as a substrate for assessing kinase activity. For optimal storage, aliquot into smaller quantities after centrifugationand store at recommended temperature. Avoid repeated handling.

Preparation and Storage

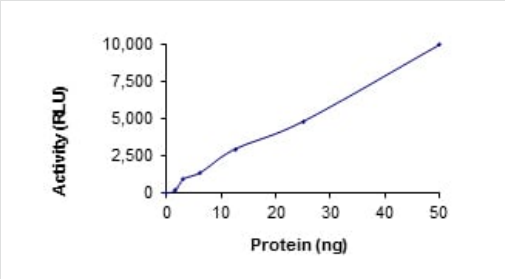
Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Essential adapter molecule for the activation of NF-kappa-B. Following different upstream signals (binding of inflammatory cytokines, stimulation of pathogen recognition receptors, or DNA damage), particular RIPK1-containing complexes are formed, initiating a limited number of cellular responses. Upon TNFA stimulation RIPK1 is recruited to a TRADD-TRAF complex initiated by TNFR1 trimerization. There, it is ubiquitinated via 'Lys-63'-link chains, inducing its association with the IKK complex, and its activation through NEMO binding of polyubiquitin chains.
Sequence similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Contains 1 death domain. Contains 1 protein kinase domain.
Post-translational modifications	Proteolytically cleaved by caspase-8 during TNF-induced apoptosis. Cleavage abolishes NF-kappa-B activation and enhances pro-apototic signaling through the TRADD-FADD interaction. Autophosphorylated on serine and threonine residues. Ubiquitinated by 'Lys-11'-, 'Lys-48'-, 'Lys-63'- and linear-linked type ubiquitin. Polyubiquitination with 'Lys-63'-linked chains by TRAF2 induces association with the IKK complex. Deubiquitination of 'Lys-63'-linked chains and polyubiquitination with 'Lys-48'-linked chains by TNFAIP3 leads to RIPK1 proteasomal degradation and consequently to the termination of the TNF- or Linear polyubiquitinated; the head-to-tail polyubiquitination is mediated by the LUBAC complex. LPS-mediated activation of NF-kappa-B. Also ubiquitinated with 'Lys-11'-linked chains.

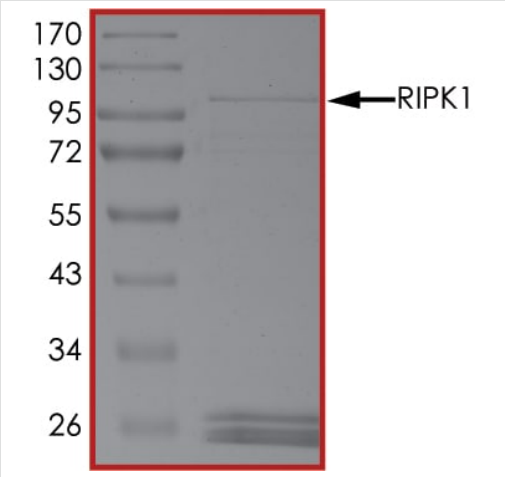
Cellular localization Cytoplasm.

Images



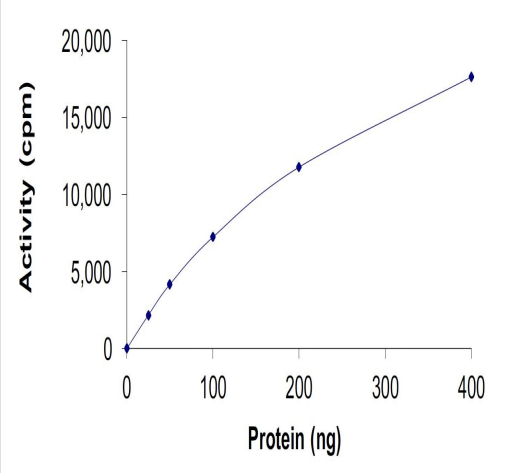
Functional Studies - Recombinant human RIP protein (Active) (ab190411)

The specific activity of RIP (ab190411) was determined to be 1.4 nmol/min/mg as per activity assay protocol and was equivalent to 3 nmol/min/mg as per radiometric assay



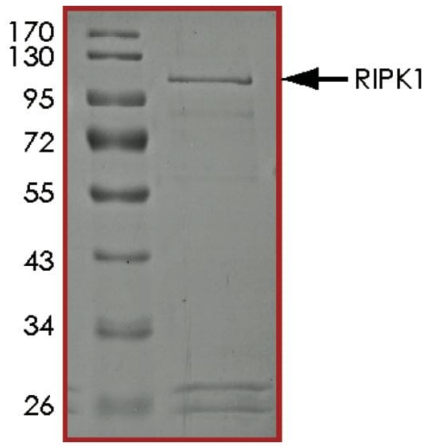
SDS-PAGE - Recombinant human RIP protein (Active) (ab190411)

SDS PAGE analysis of ab190411



Functional Studies - Recombinant human RIP protein (ab190411)

Specific Activity: 4 nmol/min/mg



SDS-PAGE - Recombinant human RIP protein (Active) (ab190411)

Purity >70& by densitometry.

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