abcam

Product datasheet

Recombinant mouse RIP protein (Active) ab271733

2 Images

Description

Product name	Recombinant mouse RIP protein (Active)
Biological activity	Assay was done in a Kinase buffer using MBP (0.2 mg/ml) as a substrate with 10 µM ATP at 30°C for 50 minutes. The amount of ATP transferred was calculated using ADP-Glo reagent.
Purity	>= 90 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	**Q60855**
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MQPDMSLDNI KMASSDLLEK TDLDSGGFGK VSLCYHRSHG FVILKKVYTG PNRAEYNEVL LEEGKMMHRL RHSRVVKLLG IIIEEGNYSL VMEYMEKGNL MHVLKTQIDV PLSLKGRIIV EAIEGMCYLH DKGVIHKDLK PENILVDRDF HIKIADLGVA SFKTWSKLTK EKDNKQKEVS STTKKNNGGT LYYMAPEHLN DINAKPTEKS DVYSFGIVLW AIFAKKEPYE NVICTEQFVI CIKSGNRPNV EEILEYCPRE IISLMERCWQ AIPEDRPTFL GIEEEFRPFY LSHFEEYVEE DVASLKKEYP DQSPVLQRMF SLQHDCV
Predicted molecular weight	64 kDa including tags
Amino acids	1 to 327
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab271733** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies

Form	Liquid

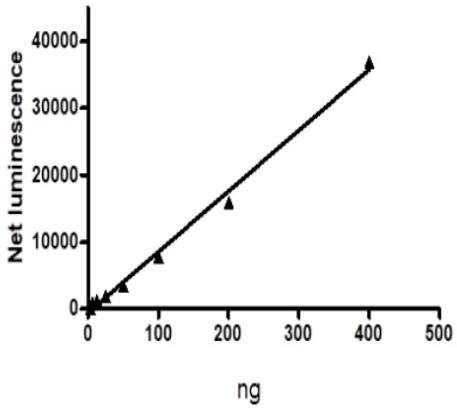
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 0.71% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 20% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

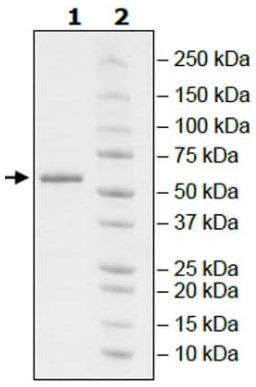
Function	Essential adapter molecule for the activation of NF-kappa-B. Following different upstream signals (binding of inflammatory cytokines, stimulation of pathogen recognition receptors, or DNA damage), particular RIPK1-containing complexes are formed, initiating a limited number of cellular responses. 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



Specific activity of ab271733.

Functional Studies - Recombinant mouse RIP protein (Active) (ab271733)



SDS-PAGE analysis of 3 µg ab271733.

SDS-PAGE - Recombinant mouse RIP protein (Active) (ab271733)

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