

Recombinant human Rsk 2 / MAPKAP Kinase 1b (mutated L608F) protein ab172182

2 Images

Description

Product name	Recombinant human Rsk 2 / MAPKAP Kinase 1b (mutated L608F) protein		
Biological activity	Specific Activity, 140 nmol/min/mg.		
Purity	> 95 % Densitometry. Affinity purified.		
Expression system	Baculovirus infected Sf9 cells		
Accession	<u>NM_004586</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MPLAQLADPWQKMAVESPSDSAENGQQIMDEPMGEEEI NPQTEEVSIKEI AITHHVKEGHEKADPSQFELLKVLGQGSFGKVFLVKKISG SDARQLYAMK VLKKATLKVRDRVRTKMERDILVEVNHPFVKLHYAFQTEG KLYLIDFL RGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHSLGIY RDLKPENIL LDEEGHIKLTDFGLSKESIDHEKKAYSFCGTVEYMAPEVV NRRGHTQSAD WWSFGVLMFEMLTGTLPFQGKDRKETMTMILKAKLGMPQ FLSPEAQSLLR MLFKRNPANRLGAGPDGVVEIKRHSFFSTIDWNKLYRREIH PPFKPATGR PEDTFYFDPEFTAKTPKDSPGIPPSANAHQLFRGFSFVAIT SDDESQAMQ TVGVHSVQQLHRNSIQFTDGYEVKEDIGVGSYSVCKRCIH KATNMEFAV KIIDKSKRDPTEEIEILLRYGQHPNIITLKDVYDDGKYVYVTE LMKGGE LLDKILRQKFFSEREASAVLFTITKTVEYLHAQGVVHRDLK PSNILYVDE		

SGNPESIRICDFGFAKQLRAENGLLMTPCYTANFVAPEVL
 KRQGYDAACD
 IWSLGVLLYTMLTGYPFANGPDDTPEEILARIGSGKFSLS
 GGYWNSVSD
 TAKDLVSKMLHVDPHQRLTAALVLRHPWVHWDQLPQYQ
 LNRQDAPHLVK
 GAMAATYSALNRNQSPVLEPVGRSTLAQRRGIKKITSTAL

Predicted molecular weight	84 kDa
Amino acids	1 to 740
Tags	proprietary tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab172182** in the following tested applications.

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

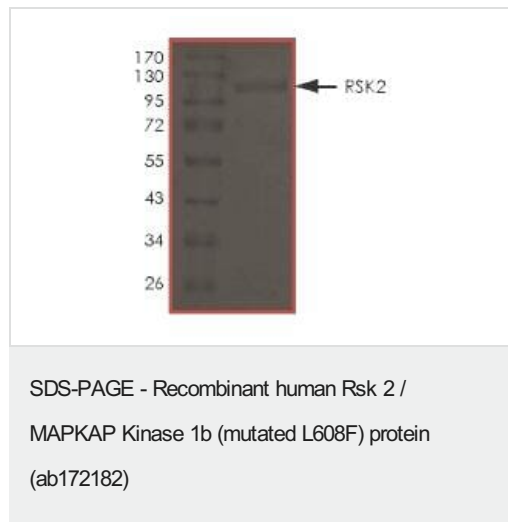
Applications	Functional Studies
	Western blot
	SDS-PAGE
Form	Liquid

Preparation and Storage

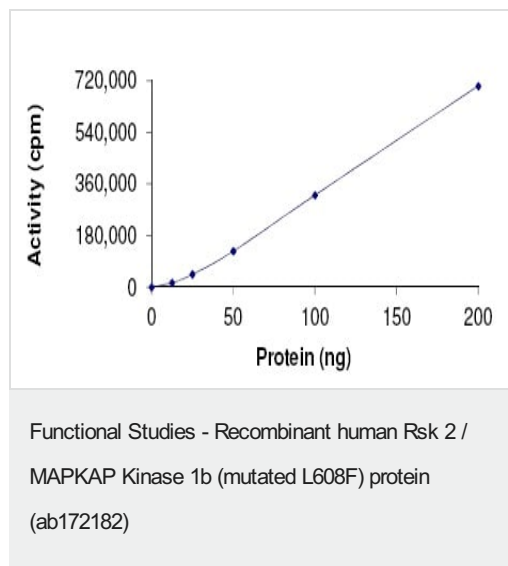
Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 7.50
	Constituents: 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.61% Tris-HCl buffer, 0.002% PMSF
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB.
Tissue specificity	Expressed in many tissues, highest levels in skeletal muscle.
Involvement in disease	Defects in RPS6KA3 are the cause of Coffin-Lowry syndrome (CLS) [MIM:303600]; an X-linked dominant disorder characterized by severe mental retardation with facial and digital dysmorphisms, and progressive skeletal deformations.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 2 protein kinase domains.
Post-translational modifications	Autophosphorylated on Ser-386, as part of the activation process. Ser-227 phosphorylation promotes Ser-386 phosphorylation and leads to basal activation. Full activation by growth factors requires additional phosphorylation on Ser-369.



ab172182 on SDS-PAGE.



Sample Kinase Activity Plot. ab172182 specific activity was determined to be 140 nmol/min/mg.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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