

Datasheet for ABIN7554317

RPS6KA1 Protein (AA 1-735) (His tag)



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Quantity:	1 mg
Target:	RPS6KA1
Protein Characteristics:	AA 1-735
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPS6KA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat RPS6KA1 Protein expressed in mammalien cells.
Sequence:	MPLAQLKEPW PLMELVPLDP ENGQTSGEEA GLQPSKDEGV LKEISITHHV KAGSEKADPS
	HFELLKVLGQ GSFGKVFLVR KVTRPDSGHL YAMKVLKKAT LKVRDRVRTK MERDILADVN
	HPFVVKLHYA FQTEGKLYLI LDFLRGGDLF TRLSKEVMFT EEDVKFYLAE LALGLDHLHS
	LGIIYRDLKP ENILLDEEGH IKLTDFGLSK EAIDHEKKAY SFCGTVEYMA PEVVNRQGHS
	HSADWWSYGV LMFEMLTGSL PFQGKDRKET MTLILKAKLG MPQFLSTEAQ SLLRALFKRN
	PANRLGSGPD GAEEIKRHVF YSTIDWNKLY RREIKPPFKP AVAQPDDTFY FDTEFTSRTP
	KDSPGIPPSA GAHQLFRGFS FVATGLMEDD GKPRAPQAPL HSVVQQLHGK NLVFSDGYVV
	KETIGVGSYS ECKRCVHKAT NMEYAVKVID KSKRDPSEEI EILLRYGQHP NIITLKDVYD
	DGKHVYLVTE LMRGGELLDK ILRQKFFSER EASFVLHTIG KTVEYLHSQG VVHRDLKPSN
	ILYVDESGNP ECLRICDFGF AKQLRAENGL LMTPCYTANF VAPEVLKRQG YDEGCDIWSL
	GILLYTMLAG YTPFANGPSD TPEEILTRIG SGKFTLSGGN WNTVSETAKD LVSKMLHVDP

HQRLTAKQVL QHPWVTQKDK LPQSQLSHQD LQLVKGAMAA TYSALNSSKP TPQLKPIESS ILAQRRVRKL PSTTL Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein from design to production by highly experienced protein experts.
- · Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

Target:

custom-made

RPS6KA1

Target Details

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Alternative Name:	RPS6KA1 (RPS6KA1 Products)
Background:	Ribosomal protein S6 kinase alpha-1 (S6K-alpha-1) (EC 2.7.11.1) (90 kDa ribosomal protein S6
	kinase 1) (p90-RSK 1) (p90RSK1) (p90S6K) (MAP kinase-activated protein kinase 1a) (MAPK-
	activated protein kinase 1a) (MAPKAP kinase 1a) (MAPKAPK-1a) (Ribosomal S6 kinase 1)
	(RSK-1),FUNCTION: Serine/threonine-protein kinase that acts downstream of ERK
	(MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced
	activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77, regulates
	translation through RPS6 and EIF4B phosphorylation, and mediates cellular proliferation,

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survival, and differentiation by modulating mTOR signaling and repressing pro-apoptotic function of BAD and DAPK1 (PubMed:10679322, PubMed:16223362, PubMed:15117958,

PubMed:12213813, PubMed:9430688, PubMed:17360704, PubMed:26158630, PubMed:18722121, PubMed:35772404). In fibroblast, is required for EGF-stimulated phosphorylation of CREB1, which results in the subsequent transcriptional activation of several immediate-early genes (PubMed:18508509, PubMed:18813292). In response to mitogenic stimulation (EGF and PMA), phosphorylates and activates NR4A1/NUR77 and ETV1/ER81 transcription factors and the cofactor CREBBP (PubMed:12213813, PubMed:16223362). Upon insulin-derived signal, acts indirectly on the transcription regulation of several genes by phosphorylating GSK3B at 'Ser-9' and inhibiting its activity (PubMed:18508509, PubMed:18813292). Phosphorylates RPS6 in response to serum or EGF via an mTORindependent mechanism and promotes translation initiation by facilitating assembly of the preinitiation complex (PubMed:17360704). In response to insulin, phosphorylates EIF4B, enhancing EIF4B affinity for the EIF3 complex and stimulating cap-dependent translation (PubMed:16763566). Is involved in the mTOR nutrient-sensing pathway by directly phosphorylating TSC2 at 'Ser-1798', which potently inhibits TSC2 ability to suppress mTOR signaling, and mediates phosphorylation of RPTOR, which regulates mTORC1 activity and may promote rapamycin-sensitive signaling independently of the PI3K/AKT pathway (PubMed:15342917). Also involved in feedback regulation of mTORC1 and mTORC2 by phosphorylating DEPTOR (PubMed:22017876). Mediates cell survival by phosphorylating the pro-apoptotic proteins BAD and DAPK1 and suppressing their pro-apoptotic function (PubMed:10679322, PubMed:16213824). Promotes the survival of hepatic stellate cells by phosphorylating CEBPB in response to the hepatotoxin carbon tetrachloride (CCI4) (PubMed:11684016). Mediates induction of hepatocyte prolifration by TGFA through phosphorylation of CEBPB (PubMed:18508509, PubMed:18813292). Is involved in cell cycle regulation by phosphorylating the CDK inhibitor CDKN1B, which promotes CDKN1B association with 14-3-3 proteins and prevents its translocation to the nucleus and inhibition of G1 progression (PubMed:18508509, PubMed:18813292). Phosphorylates EPHA2 at 'Ser-897', the RPS6KA-EPHA2 signaling pathway controls cell migration (PubMed:26158630). In response to mTORC1 activation, phosphorylates EIF4B at 'Ser-406' and 'Ser-422' which stimulates bicarbonate cotransporter SLC4A7 mRNA translation, increasing SLC4A7 protein abundance and function (PubMed:35772404). {ECO:0000269|PubMed:10679322, ECO:0000269|PubMed:11684016, ECO:0000269|PubMed:12213813, ECO:0000269|PubMed:15117958, ECO:0000269|PubMed:15342917, ECO:0000269|PubMed:16213824, ECO:0000269|PubMed:16223362, ECO:0000269|PubMed:16763566, ECO:0000269|PubMed:17360704, ECO:0000269|PubMed:18722121, ECO:0000269|PubMed:22017876, ECO:0000269|PubMed:26158630, ECO:0000269|PubMed:35772404,

Target Details

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	ECO:0000269 PubMed:9430688, ECO:0000303 PubMed:18508509,
	ECO:0000303 PubMed:18813292}., FUNCTION: (Microbial infection) Promotes the late
	transcription and translation of viral lytic genes during Kaposi's sarcoma-associated
	herpesvirus/HHV-8 infection, when constitutively activated. {ECO:0000269 PubMed:30842327}.
Molecular Weight:	82.7 kDa
UniProt:	Q15418
Pathways:	MAPK Signaling, Neurotrophin Signaling Pathway, Activation of Innate immune Response, Toll-
	Like Receptors Cascades
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months