Datasheet for ABIN7554870

PASK Protein (AA 1-1323) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	PASK
Protein Characteristics:	AA 1-1323
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PASK protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PASK Protein expressed in mammalien cells.
Sequence:	MEDGGLTAFE EDQRCLSQSL PLPVSAEGPA AQTTAEPSRS FSSAHRHLSR RNGLSRLCQS RTALSEDRWS SYCLSSLAAQ NICTSKLHCP AAPEHTDPSE PRGSVSCCSL LRGLSSGWSS PLLPAPVCNP NKAIFTVDAK TTEILVANDK ACGLLGYSSQ DLIGQKLTQF FLRSDSDVVE ALSEEHMEAD GHAAVVFGTV VDIISRSGEK IPVSVWMKRM RQERRLCCVV VLEPVERVST WVAFQSDGTV TSCDSLFAHL HGYVSGEDVA GQHITDLIPS VQLPPSGQHI PKNLKIQRSV GRARDGTTFP LSLKLKSQPS SEEATTGEAA PVSGYRASVW VFCTISGLIT LLPDGTIHGI NHSFALTLFG YGKTELLGKN ITFLIPGFYS YMDLAYNSSL QLPDLASCLD VGNESGCGER TLDPWQGQDP AEGGQDPRIN VVLAGGHVVP RDEIRKLMES QDIFTGTQTE LIAGGQLLSC LSPQPAPGVD NVPEGSLPVH GEQALPKDQQ ITALGREEPV AIESPGQDLL GESRSEPVDV KPFASCEDSE APVPAEDGGS DAGMCGLCQK AQLERMGVSG PSGSDLWAGA AVAKPQAKGQ LAGGSLLMHC PCYGSEWGLW WRSQDLAPSP SGMAGLSFGT PTLDEPWLGV ENDREELQTC

Product Details

	LIKEQLSQLS LAGALDVPHA ELVPTECQAV TAPVSSCDLG GRDLCGGCTG SSSACYALAT DLPGGLEAVE AQEVDVNSFS WNLKELFFSD QTDQTSSNCS CATSELRETP SSLAVGSDPD VGSLQEQGSC VLDDRELLLL TGTCVDLGQG RRFRESCVGH DPTEPLEVCL VSSEHYAASD RESPGHVPST LDAGPEDTCP SAEEPRLNVQ VTSTPVIVMR GAAGLQREIQ EGAYSGSCYH RDGLRLSIQF EVRRVELQGP TPLFCCWLVK DLLHSQRDSA ARTRLFLASL PGSTHSTAAE LTGPSLVEVL RARPWFEEPP KAVELEGLAA CEGEYSQKYS TMSPLGSGAF GFVWTAVDKE KNKEVVVKFI KKEKVLEDCW IEDPKLGKVT LEIAILSRVE HANIIKVLDI FENQGFFQLV MEKHGSGLDL FAFIDRHPRL DEPLASYIFR QLVSAVGYLR LKDIIHRDIK DENIVIAEDF TIKLIDFGSA AYLERGKLFY TFCGTIEYCA PEVLMGNPYR GPELEMWSLG VTLYTLVFEE NPFCELEETV EAAIHPPYLV SKELMSLVSG LLQPVPERRT TLEKLVTDPW VTQPVNLADY TWEEVFRVNK PESGVLSAAS LEMGNRSLSD VAQAQELCGG PVPGEAPNGQ GCLHPGDPRL LTS **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:	custom-made

Target Details

Target:	PASK

Target Details

Alternative Name:	PASK (PASK Products)
Background:	PAS domain-containing serine/threonine-protein kinase (PAS-kinase) (PASKIN) (hPASK) (EC 2.7.11.1),FUNCTION: Serine/threonine-protein kinase involved in energy homeostasis and protein translation. Phosphorylates EEF1A1, GYS1, PDX1 and RPS6. Probably plays a role under changing environmental conditions (oxygen, glucose, nutrition), rather than under standard conditions. Acts as a sensor involved in energy homeostasis: regulates glycogen synthase synthesis by mediating phosphorylation of GYS1, leading to GYS1 inactivation. May be involved in glucose-stimulated insulin production in pancreas and regulation of glucagon secretion by glucose in alpha cells, however such data require additional evidences. May play a role in regulation of protein translation by phosphorylating EEF1A1, leading to increase translation efficiency. May also participate in respiratory regulation. {ECO:0000269|PubMed:16275910, ECO:0000269|PubMed:17052199, ECO:0000269|PubMed:17595531, ECO:0000269|PubMed:20943661, ECO:0000269|PubMed:21181396, ECO:0000269|PubMed:21418524}.
Molecular Weight:	142.9 kDa
UniProt:	Q96RG2
Pathways:	Regulation of Carbohydrate Metabolic Process

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