

Datasheet for ABIN7564299

DAP Kinase 1 Protein (AA 1-1442) (His tag)



Go to Product page

_					
	W	0	rv	10	W

Quantity:	1 mg
Target:	DAP Kinase 1 (DAPK1)
Protein Characteristics:	AA 1-1442
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DAP Kinase 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat Dapk1 Protein expressed in mammalien cells.
Sequence:	MTVFRQENVD DYYDTGEELG SGQFAVVKKC REKSTGLQYA AKFIKKRRTK SSRRGVSRED
	IEREVSILKE IRHPNVITLH EVYENKTDVI LILELVAGGE LFDFLAEKES LTEEEATEFL KQILSGVYYI
	HSLQIAHFDL KPENIMLLDR NVPKPRIKII DFGLAHKIDF GNEFKNIFGT PEFVAPEIVN
	YEPLGLEADM WSIGVITYIL LSGASPFLGD TKQETLANVS AVNYDFEEEF FRNTSTLAKD
	FIRRLLVKDP KKRMTIQDSL QHPWIKPKDT QQALSRKASA VNMEKFKKFA ARKKWKQSVR
	LISLCQRLSR SFLSRSNMSV ARSDDTLDEE DSFVMKAIIH AINDDNVPGL QHLLGSLSSY
	DVNQPNKHGT PPLLIAAGCG NIQMLQLLIK RGSRIDVQDK GGSNAIYWAS RHGHVDTLKF
	LNENKCPLDV KDKSGETALH VAARYGHADV VQLLCSFGSN PDFQDKEEET PLHCAAWHGY
	YSVAKALCEV GCNVNIKNRE GETPLLTASA RGYHDIVECL AEHGADLNAS DKDGHIALHL
	AVRRCQMEVI KTLLGHGSFV DFQDRHGNTP LHVACKDGSA PIVVALCEAS CNLDISNKYG
	RTPLHLAANN GILDVVRYLC LMGANVEALT SDGKTAEDLA KAEQHEHVAG LLARLRKDTH

RGLFIQQLRP TQNLQPRIKL KLFGHSGSGK STLVESLKCG LLRSFFRRRR PRLSSTNSTR FPPSPLAAKP TVSVSINNLY PGCENVSVRS RSMMFEPGLT KGMLEVFVAP SHHLHCSTDD QSTKAIDIQN AYLNGVGDFS VWEFSGNPVY FCCYDYFAAN DPTSIHIIVF SLEEPYEIQL NQVIFWLSFL KSLVPVEEPI AFGGKLKNPL RVVLVATHAD IMNIPRPAGG EFGYDKDTSL LKEIRNRFGN DLHVSNKLFV LDAGASGSKD IKVLRNHLQE IRSQIVSGCS PMTHLCEKII STLPSWRKLN GPNQLMSLQQ FVYDVQDQLN PLASEDDLRR IAQQLHSTGE INIMQSETVQ DVLLLDPRWL CTNVLGKLLS VETPRALHHY RGRYTMEDIQ RLVPDSDVEE LLQILDAMDI CARDLSSGTM VDIPALIKTD SLORSWADEE DEVMVYGGVR IVPVEHLTPF PCGIFHKVQV NLCRWIHQQS AEGDADIRLW VSGCRIANRG AELLVLLVNH GQGIEVQVRG LETEKIKCCL LLDSVCSTIE TVMATTLPGL LTVKHYLSPQ QLREHHEPVM VYQPRDFFRA QTLKESSLTN TMGGYKESFS SITCFGCHDV YSQASLGMDI HASDLSLLTR RKLSRLLDPP DPMGKDWCLL AMNLGLPDMV AKHNVNNRAS RDFLPSPVHA LLQEWTSYPE STVGILISKL RELGRRDAAD FLLKASSVFK INLDGNGQEA YASSCNSGTS YNSISSVVSR RDSHAWTPLY DL 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:	DAP Kinase 1 (DAPK1)			
Alternative Name:	Dapk1 (DAPK1 Products)			
Background:	Death-associated protein kinase 1 (DAP kinase 1) (EC 2.7.11.1),FUNCTION:			
3 - 1 - 1	Calcium/calmodulin-dependent serine/threonine kinase involved in multiple cellular signaling			
	pathways that trigger cell survival, apoptosis, and autophagy. Regulates both type I apoptotic			
	and type II autophagic cell deaths signal, depending on the cellular setting. The former is			
	caspase-dependent, while the latter is caspase-independent and is characterized by the			
	accumulation of autophagic vesicles. Phosphorylates PIN1 resulting in inhibition of its catalytic			
	activity, nuclear localization, and cellular function. Phosphorylates TPM1, enhancing stress fibe			
	formation in endothelial cells. Phosphorylates STX1A and significantly decreases its binding to			
	STXBP1. Phosphorylates PRKD1 and regulates JNK signaling by binding and activating PRKD1			
	under oxidative stress. Phosphorylates BECN1, reducing its interaction with BCL2 and BCL2L1			
	and promoting the induction of autophagy. Phosphorylates TSC2, disrupting the TSC1-TSC2			
	complex and stimulating mTORC1 activity in a growth factor-dependent pathway.			
	Phosphorylates RPS6, MYL9 and DAPK3 (By similarity). Acts as a signaling amplifier of NMDA			
	receptors at extrasynaptic sites for mediating brain damage in stroke. Cerebral ischemia			
	recruits DAPK1 into the NMDA receptor complex and it phosphorylates GRINB at Ser-1303			
	inducing injurious Ca(2+) influx through NMDA receptor channels, resulting in an irreversible			
	neuronal death. Required together with DAPK3 for phosphorylation of RPL13A upon interferon			
	gamma activation which is causing RPL13A involvement in transcript-selective translation			
	inhibition. {ECO:0000250, ECO:0000269 PubMed:11485996, ECO:0000269 PubMed:18806755,			
	ECO:0000269 PubMed:20141836, ECO:0000269 PubMed:23071094}.			
Molecular Weight:	161.4 kDa			
UniProt:	Q80YE7			
Pathways:	MAPK Signaling, Interferon-gamma Pathway			
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