

Datasheet for ABIN7553617

DAP Kinase 1 Protein (AA 1-1430) (His tag)



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Quantity:	1 mg
Target:	DAP Kinase 1 (DAPK1)
Protein Characteristics:	AA 1-1430
Origin:	Human
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)

Purpose:	Custom-made recombinat DAPK1 Protein expressed in mammalien cells.
Sequence:	MTVFRQENVD DYYDTGEELG SGQFAVVKKC REKSTGLQYA AKFIKKRRTK SSRRGVSRED
	IEREVSILKE IQHPNVITLH EVYENKTDVI LILELVAGGE LFDFLAEKES LTEEEATEFL KQILNGVYYI
	HSLQIAHFDL KPENIMLLDR NVPKPRIKII DFGLAHKIDF GNEFKNIFGT PEFVAPEIVN
	YEPLGLEADM WSIGVITYIL LSGASPFLGD TKQETLANVS AVNYEFEDEY FSNTSALAKD
	FIRRLLVKDP KKRMTIQDSL QHPWIKPKDT QQALSRKASA VNMEKFKKFA ARKKWKQSVR
	LISLCQRLSR SFLSRSNMSV ARSDDTLDEE DSFVMKAIIH AINDDNVPGL QHLLGSLSNY
	DVNQPNKHGT PPLLIAAGCG NIQILQLLIK RGSRIDVQDK GGSNAVYWAA RHGHVDTLKF
	LSENKCPLDV KDKSGEMALH VAARYGHADV AQLLCSFGSN PNIQDKEEET PLHCAAWHGY
	YSVAKALCEA GCNVNIKNRE GETPLLTASA RGYHDIVECL AEHGADLNAC DKDGHIALHL
	AVRRCQMEVI KTLLSQGCFV DYQDRHGNTP LHVACKDGNM PIVVALCEAN CNLDISNKYG
	RTPLHLAANN GILDVVRYLC LMGASVEALT TDGKTAEDLA RSEQHEHVAG LLARLRKDTH

RGLFIQQLRP TQNLQPRIKL KLFGHSGSGK TTLVESLKCG LLRSFFRRRR PRLSSTNSSR FPPSPLASKP TVSVSINNLY PGCENVSVRS RSMMFEPGLT KGMLEVFVAP THHPHCSADD OSTKAIDION AYLNGVGDFS VWEFSGNPVY FCCYDYFAAN DPTSIHVVVF SLEEPYEIOL NQVIFWLSFL KSLVPVEEPI AFGGKLKNPL QVVLVATHAD IMNVPRPAGG EFGYDKDTSL LKEIRNRFGN DLHISNKLFV LDAGASGSKD MKVLRNHLQE IRSQIVSVCP PMTHLCEKII STLPSWRKLN GPNQLMSLQQ FVYDVQDQLN PLASEEDLRR IAQQLHSTGE INIMQSETVQ DVLLLDPRWL CTNVLGKLLS VETPRALHHY RGRYTVEDIQ RLVPDSDVEE LLQILDAMDI CARDLSSGTM VDVPALIKTD NLHRSWADEE DEVMVYGGVR IVPVEHLTPF PCGIFHKVOV NLCRWIHQQS TEGDADIRLW VNGCKLANRG AELLVLLVNH GQGIEVQVRG LETEKIKCCL LLDSVCSTIE NVMATTLPGL LTVKHYLSPQ QLREHHEPVM IYQPRDFFRA QTLKETSLTN TMGGYKESFS SIMCFGCHDV YSQASLGMDI HASDLNLLTR RKLSRLLDPP DPLGKDWCLL AMNLGLPDLV AKYNTSNGAP KDFLPSPLHA LLREWTTYPE STVGTLMSKL RELGRRDAAD FLLKASSVFK INLDGNGQEA YASSCNSGTS YNSISSVVSR 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:
	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. 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.,
	FUNCTION: Isoform 2 cannot induce apoptosis but can induce membrane blebbing.
Molecular Weight:	160.0 kDa
UniProt:	P53355
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
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	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Handling

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