Datasheet for ABIN7563495

DEPDC5 Protein (AA 1-1591) (His tag)

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Overview

Quantity:	1 mg
Target:	DEPDC5
Protein Characteristics:	AA 1-1591
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DEPDC5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Depdc5 Protein expressed in mammalian cells.
Sequence:	MRTTKVYKLV IHKKGFGGSD DELVVNPKVF PHIKLGDIVE IAHPNDEYSP LLLQVKSLKE DLQKETISVD QTVTQVFRLR PYQDVYVNVV DPKDVTLDLV ELTFKDQYIG RGDMWRLKKS LVSTCAYITQ KVEFAGIRAQ AGELWVKNEK VMCGYISEET RVVFRSTSAM VYIFIQMSCE MWDFDIYGDL YFEKAVNGFL ADLFTKWKEK NCSHEVTVVL FSRTFYDAKS IDEFPEINRA SIQEDHKGRF YEDFYKVVVQ NERREEWTSL LVTIKKLFIQ YPVLVRLEQA GGFPQGDNST SAQGNYLEAI NLSFNVFDKH YINRNFDRTG QMSVVITPGV GVFEVDRLLM ILTKQRMIDN GIGVDLVCMG EQPLHAVPLF KLHNRSVPRD SRLGDDYNIP HWINHSFYTS KSQLFCNSFT PRIKLAGKKS ASEKTKNGRD TSLGTPKESE NTLPIQVDYD AYDAQVFRLP GPSRAQRLAT CRSVREQENH SRKSASSCDV SSSPSLPSRA LPTEEVRSQA SDDSSLGKST NILMIPNPHL HQYEVSSSLG YTSTRDVLEN MIEPPQRDSS APGRFHVGSA ESMLHVRPGG YTPQRALINP FAPSRMPMKL TSNRRRWMHT FPVGPSGEAI QIHHQTRQNM AELQGSRQRD PTHSSAELLE LAYHEAAGRH STSRQPGDSM SLNFSGTEEL SVSLLSNSST GVNPRTQNKD SLEDSVSTSP

	DPMPGFCCTV GVDWKSLTTP ACLPLTTDYF PDRQGLQNDY TEGCYDLLPE ADMDRRDEEG VQMTAQQVFE EFICQRLMQG YQIIVQPKTQ KPNTTVPPPL SSSPLYSRGL VSRNRPEEEG QYWLSMGRTF HKVTLKDKMI TVTRYLPKYP YESAQIHYTY SLCPSHSDSE FVSCWVDFCH ERLEEYKWNY LDQYICSAGS EDFSLIESLK FWRTRFLLLP ACVTATKRIT EGEVHCDIYG DKPRADEDEW QLLDGFIRFV EGLNRIRRRH RSDRMIRKGT AMKGLQMTGP ISAHSLEAAG PPVGKKGTSA LSALLEMEAS QKSLGEQQTT VHGKSSTQPA ENSSVAMTPT YVDSPRKDGA FFMEFVRSPR TASSAFYPQA SVDQTAPLVL DSTSLGVSTG QPMDRGNNQT FGNSQNIEQA FPSANSGDYS SQQHVASSLT SSSTLVEILE AMKHPSTGVQ LLSEQKGLSP CCFISAEVVH WLMNNVEGVQ TQAMGIDIMQ KMLEEQLITH ASGEAWRTFI YGFYFYKIVM DKEPERVAMQ QPSAPWYTAG ADDFASFQRK WFEVAFVAEE LVHSEIPAFL LPWLPSRPAS YASRHSSFSR SFGGRSQAAA LLAATVPEQR TVTLDVDVNN RTDRLEWCSC YYHGNFSLNA AFEIKLHWMA VTATVLFEMV QGWHRKATSC GFLLVPVLEG PFALPSYLYG DPLRAQLFIP LNLSCLLKEG SEHLFDSFEP ETYWDRMHLF QEAIAHRFGF VQDKYSVSAF NFPAENKPQY IHVTGTVFLQ LPYSKRKFSG QQRRRRNSTS STNQNMFCEE RVGYNWAYNT MLTKTWRSSA TGDEKFADRL LKDFTDFCIN RDNRLVTFWT NCLEKMHASA P **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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.

Product Details

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DEPDC5
Alternative Name:	Depdc5 (DEPDC5 Products)
Background:	GATOR1 complex protein DEPDC5 (DEP domain-containing protein 5),FUNCTION: As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the mTORC1 pathway (PubMed:31548394). In response to amino acid depletion, the GATOR1 complex has GTPase activating protein (GAP) activity and strongly increases GTP hydrolysis by RagA/RRAGA (or RagB/RRAGB) within heterodimeric Rag complexes, thereby turning them into their inactive GDP-bound form, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling (By similarity). In the presence of abundant amino acids, the GATOR1 complex is negatively regulated by GATOR2, the other GATOR subcomplex, in this amino acid-sensing branch of the TORC1 pathway (By similarity). Within the GATOR1 complex, DEPDC5 mediates direct interaction with the nucleotide-binding pocket of small GTPases Rag (RagA/RRAGA, RagB/RRAGB, RagC/RRAGC and/or RagD/RRAGD) and coordinates their nucleotide loading states by promoting RagA/RRAGA or RagB/RRAGB into their GDP-binding state and RagC/RRAGC or RagD/RRAGD into their GTP-binding state (By similarity). However, it does not execute the GAP activity, which is mediated by NPRL2 (By similarity). {ECO:0000250|UniProtKB:O75140, ECO:0000269|PubMed:31548394}.
Molecular Weight:	180.4 kDa
UniProt:	P61460

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

