Datasheet for ABIN7553677

DENND3 Protein (AA 1-1198) (His tag)

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Overview

Quantity:	1 mg
Target:	DENND3
Protein Characteristics:	AA 1-1198
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DENND3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DENND3 Protein expressed in mammalian cells.
Sequence:	MRSLRKKREK PRPEQWKGLP GPPRAPEPED VAVPGGVDLL TLPQLCFPGG VCVATEPKED CVHFLVLTDV CGNRTYGVVA QYYRPLHDEY CFYNGKTHRE CPGCFVPFAV CVVSRFPYYN SLKDCLSCLL ALLKPCKDFE VDSHIKDFAA KLSLIPSPPP GPLHLVFNMK SLQIVLPARA DPESPILDLD LHLPLLCFRP EKVLQILTCI LTEQRIVFFS SDWALLTLVT ECFMAYLYPL QWQHPFVPIL SDQMLDFVMA PTSFLMGCHL DHFEEVSKEA DGLVLINIDH GSITYSKSTD DNVDIPDVPL LAAQTFIQRV QSLQLHHELH AAHLLSSTDL KEGRAHRRSW QQKLNCQIQQ TTLQLLVSIF RDVKNHLNYE HRVFNSEEFL KTRAPGDHQF YKQVLDTYMF HSFLKARLNR RMDAFAQMDL DTQSEEDRIN GMLLSPRRPT VEKRASRKSS HLHVTHRRMV VSMPNLQDIA MPELAPRNSS LRLTDTAGCR GSSAVLNVTP KSPYTFKIPE IHFPLESKCV QAYHAHFVSM LSEAMCFLAP DNSLLLARYL YLRGLVYLMQ GQLLNALLDF QNLYKTDIRI FPTDLVKRTV ESMSAPEWEG AEQAPELMRL ISEILDKPHE ASKLDDHVKK FKLPKKHMQL GDFMKRVQES GIVKDASIIH RLFEALTVGQ EKQIDPETFK DFYNCWKETE AEAQEVSLPW LVMEHLDKNE

Product Details

	CVCKLSSSVK TNLGVGKIAM TQKRLFLLTE GRPGYLEIST FRNIEEVRRT TTTFLLRRIP TLKIRVASKK EVFEANLKTE CDLWHLMVKE MWAGKKLADD HKDPHYVQQA LTNVLLMDAV VGTLQSPGAI YAASKLSYFD KMSNEMPMTL PETTLETLKH KINPSAGEAF PQAVDVLLYT PGHLDPAEKV EDAHPKLWCA LSEGKVTVFN ASSWTIHQHS FKVGTAKVNC MVMADQNQVW VGSEDSVIYI INVHSMSCNK QLTAHCSSVT DLIVQDGQEA PSNVYSCSMD GMVLVWNVST LQVTSRFQLP RGGLTSIRLH GGRLWCCTGN SIMVMKMNGS LHQELKIEEN FKDTSTSFLA FQLLPEEEQL WAACAGRSEV YIWSLKDLAQ PPQRVPLEDC SEINCMIRVK KQVWVGSRGL GQGTPKGKIY VIDAERKTVE KELVAHMDTV RTLCSAEDRY VLSGSGREEG KVAIWKGE **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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	DENND3
Alternative Name:	DENND3 (DENND3 Products)

Target Details

Background:	DENN domain-containing protein 3,FUNCTION: Guanine nucleotide exchange factor (GEF) activating RAB12. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB12 into its active GTP-bound form (PubMed:20937701). Regulates autophagy in response to starvation through RAB12 activation. Starvation leads to ULK1/2-dependent phosphorylation of Ser-472 and Ser-490, which in turn allows recruitment of 14-3-3 adapter proteins and leads to up-regulation of GEF activity towards RAB12 (By similarity). Also plays a role in protein transport from recycling endosomes to lysosomes, regulating, for instance, the degradation of the transferrin receptor and of the amino acid transporter PAT4 (PubMed:20937701). Starvation also induces phosphorylation at Tyr-858, which leads to up-regulated GEF activity and initiates autophagy (By similarity). {ECO:0000250|UniProtKB:A2RT67, ECO:0000269|PubMed:20937701}.
Molecular Weight:	135.9 kDa
UniProt:	A2RUS2

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