

Datasheet for ABIN7561981

DENND3 Protein (AA 1-1274) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	DENND3
Protein Characteristics:	AA 1-1274
Origin:	Mouse
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:	MAEPAARHLS LPSGLLELCA LLGASQDSL R GLEQIAQKRG VKSASSLVPE VLSVFPVPPFT TKEDGQVPGA SCALGKGRRR SFRKKREKPR MEPWKSHPGD SKGPDSSEDVT IPGGVDLLAL PQLCFPGCVC VASEPKEDI HFLVLTDCVG NRTYGVVAQY YRPLHDEYCF YNGKSHWEPS VISARCFVPF AVCVSRFPY YNSLKDCLSC LLTHLKLCKD FEVDNHIKDF AARLSLIPSP PPGPLHLIFN MKPLQVVFP RADPESPIVD LDLHLP LLLCF RPEKVLQILT CILTEQRIVF FSSDWALLTL MAECFVAYLH PLQWQHFTVP ILSGQMLDFV MAPTSFLMGC HLDHFEEVRK EADGLVLIDI DHGSVTCSSK SDDNIDIPDV PLLLAQTFIQ RVQSLQLHPD LHLAHSAST DLNEGRARRR AWQQLNCKI QHITLQLLVG IFREVKNHLN YEHRVFNSEE FLKTRAAGDQ QFYKQVLDY MFHSFLKARL NGRMDAFARM DLDTQSEEDR IDRMLISPRR PTVEKMASRK ASPLHITHRR MIVSMPNLQD ISLPELPPRN SSLRIMDTSN CRSSSPVLKV TPKSTYMFKI PDIHFPLESQ CVQAYYDFV TLLSKAMALL GPGDSL LAR YFYLRGLLHL MQGQLLSALL DFQNLYKTDI GIFPADLVKR TVESMSASER AQAERTPELR RLITEVFDKH GEAPKADDAV

Product Details

KNFELPKKHM QLNDVFKRVQ ESGIVKDAVI IHRLFDALTF GHEKQIDPET FRDFYTCWKE
TEAEAQEVSL PALLMEHLDK NECVYKLSSS VKTNRGVGKI AMTQKRLFL TEGRPGYVEI
ATFRNIEEVK NSTVAFLLLR IPTLKIKTVA KKEVFANLK SEC DLWHLMV KEMWAGKQLA
DDHKDPQYVQ QALTNVLLMD AVVGT LQSPS AIHAASKLAY FDNM KKKSPM AVPKTTSETL
KHKINPSAGE TAPQAIEVLL YTPGR LPAE KVEDAHPKLW CALNEGKVVV FDASSWTVHQ
HCFKVGSSKV NCMVMAEHNQ VWVGSEDSVI YIINVHSMSC NKQLTDHRSP VTGLAVHNGK
KPSEIYSCSL DGTVIWVNS TLRVISRFQL SYGDLLSISL HNDRIWCCTV HKILVWTPQG
FVRQELKHPK DASFLAFQLL PEEQLWAAS TGVSELYMWS LKDL DQPPQK TYLQDCSEVT
CMIRVKRQIW VGGRLSQGK TRGKIYVMDV EKVTVEKELV AHLDTVRTLC SAEDRYVLSG
AGQEEGKIAI WKVE **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

Target Details

Alternative Name: Dennd3 ([DENND3 Products](#))

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. Regulates autophagy in response to starvation through Rab12 activation (PubMed:24719330, PubMed:25925668, PubMed:28249939). Starvation leads to ULK1/2-dependent phosphorylation of Ser-554 and Ser-572, which in turn allows recruitment of 14-3-3 adapter proteins and leads to up-regulation of GEF activity towards Rab12 (PubMed:25925668). 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:21718402, PubMed:24719330). Starvation also induces phosphorylation at Tyr-940, which leads to up-regulated GEF activity and initiates autophagy (PubMed:28249939). {ECO:0000269|PubMed:21718402, ECO:0000269|PubMed:24719330, ECO:0000269|PubMed:25925668, ECO:0000269|PubMed:28249939}.

Molecular Weight: 143.9 kDa

UniProt: [A2RT67](#)

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
