

Datasheet for ABIN7565287
DIAPH3 Protein (AA 1-1171) (His tag)



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Overview

Quantity:	1 mg
Target:	DIAPH3
Protein Characteristics:	AA 1-1171
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIAPH3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Diaph3 Protein expressed in mammalian cells.
Sequence:	MERHRARALG RDSKSSRRKG LQSAPPAGPY EPGEKRPKLH LNIRTLTDDM LDKFASIRIP GSKKERPLP HLKTVSGISD SSSLSETME NNPKALPESE VLKLFKEMME DMNLNEDKKA PLREKDFGIK KEMVMQYINT ASKTGSLRSS RQISPQEFLLH ELKMGYTDER LFTYLESLRV SLTSHPVSWV QSGFHEGLGL LLDILEKLIN GQIQEKVVKK TQHKVIQCLR ALMNTQYGLE RIMSDKRSL SLLAKAMDPRQ PAMMADVVKL LSAVCIVGEE SILEEVLEAL TSAGEERKID RFFSIVEGLR HNSVNLQVAC MQLINALVTS PDDLDFRLHL RNEFMRCGLK EILPNLKGIK NDGLDIQLKV FDEHKEEDLS EFFHRLDIR AELDEASDVY SMLWDTVKET RAEGHFLSIL QHLLLRNDR FIREQYFKLI DECVSQIVLH RDGTDPDFTY RKRLDLDSQ FVDVCIDQAK LDEWEEKASE HCKKFEKECT DHQETQAQLQ KREAKINELQ AELQAFKSQF GALPPGTKIP LQPSVEGEAG PSALPPAPPA LSGGVPPPPP PPPPPPPPLP GMPMPFGGPV PPPPPLGFLG GQSSIPLNLP FGLKPKKEFK PEISMRRNLW LKIGPNEMSE NCFWIKVNEN KYENRDL LCK LENTFCCQEK EKRNTNDFDE KKVIKKRMKE LKFLDPKIAQ NLSIFLSSFR VPYEKIRMTI

Product Details

LEVDETQLSE SMIQNLIKHL PDEEQLKSL S QFRSDYN SLC EPEQFAV VMS NVKRLRPRLS
AILFKLQFEE QVNNIKPDIM AVSTACEEIK KSKGFSK LLE LVLLMGNYMN AGSRNAQTFG
FDLSSLCKLK DTKSADQKTT LLHFLVDVCE EKHADILHFV DDLAHLDKAS RVSVEMLEKN
VKQMGRQLQQ LEKNLETFPP PEDLHDKFVI KMSSFVISAN EQYEK LSTLL GSMTQLYQSI
MGYYAVDMKK VSV EEFNDL NNFRTSFMLA LKENIKKREA AEKEKRARIA KERAERLE
RQQEKKR LLE MKTEGDETV MDSLLEALQS GAAFRDRRKR TPKLKDIRQS LSPMSQRPVL
KVCNHNQKM QLTEGSRPHH SINCNSTRTP VAKELNYNLD THASTGRIKA VEKEACNAES
NKKKEMELLG SVAKSESVPE VEALLARLRA L

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: DIAPH3

Alternative Name: Diaph3 ([DIAPH3 Products](#))

Target Details

Background: Protein diaphanous homolog 3 (Diaphanous-related formin-3) (DRF3) (p134mDIA2) (mDIA2),FUNCTION: Actin nucleation and elongation factor required for the assembly of F-actin structures, such as actin cables and stress fibers (PubMed:10678165, PubMed:23558171). Required for cytokinesis, stress fiber formation and transcriptional activation of the serum response factor (PubMed:10678165, PubMed:23558171). Binds to GTP-bound form of Rho and to profilin: acts in a Rho-dependent manner to recruit profilin to the membrane, where it promotes actin polymerization (PubMed:10678165). DFR proteins couple Rho and Src tyrosine kinase during signaling and the regulation of actin dynamics (PubMed:10678165). Also acts as an actin nucleation and elongation factor in the nucleus by promoting nuclear actin polymerization inside the nucleus to drive serum-dependent SRF-MRTFA activity (PubMed:23558171). {ECO:0000269|PubMed:10678165, ECO:0000269|PubMed:23558171}.

Molecular Weight: 133.7 kDa

UniProt: [Q9Z207](#)

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