Datasheet for ABIN7564276

AKNA Protein (AA 1-1404) (His tag)

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Overview

Quantity:	1 mg
Target:	AKNA
Protein Characteristics:	AA 1-1404
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKNA protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Akna Protein expressed in mammalian cells.
Sequence:	MASSGAKAQW VGPSLGQGPR RRRWAWAEEQ DTDGRRDQGW GNSQSLPEAP SPELLEDFRR AQEHLPPLEW DPDMQDSEES SGEETEADDA SSPEGSTVPL PWLSRSNQQL DMSEEELDEA SGRPEVDLAG ESCTELECED QGDSSPPPPG QGPAKGWVTF IKQGSNYRPS EHLEAQPSVE HSRTKSWSSG TVSLRQPSDS LGSTWEGDTE VPQPSILPKA LPQSPCHNFP HPGDRNGGDV APATPTEFRD SLAAPAQNAE CSAGTWGEET TSLPSSRPED QTWKRTKTSP KPLPSRFTGS VSPLSTRLGA IKKVVPQHKQ GATLAGHSSS QAPKYGRGRR LNYPLPDFSK VGPRVRFPKD ENYRPPKSRG HNRQQGSTRP LIFKSPAEIV RDVLLSSGEA SLAKESSLAH TITRVPQEFQ TPEQATELVH QLQEDYHKLL TKYAEAENTI DQLRLGAKVH LYSDPPQPSQ SFCSGSMPQG SKVLSFSIPQ PRVAEWWPDP AQDPQASEAT GWPFPRTDLS PSSSPGVATP GRLPQSQGIA TDQPSTGQTQ ALTSQASRLL AKVQSFEELV LAGHLPPQDQ IKSLEQLRAA HMALEAEYLQ ACREELLDPQ LDASQGSPRT LNLCRELEAE IYHLGQRLEE LQDHMDQTQR ETEPCRPDLQ DSTPTMSFLP QSAHLSMPSG PVSLPDGQTY QEPATTTTTS PGSSCTLPIN KKLSLSIKTE

	ESPRGLPVPL RDRTLQVEQD FHGLLERYLS VKSLPEALRD EDEDDLEEEE EEQDHQGPLE VDSPATAPGK TEAVRVPPGE RPTQAEESHR DATQEDEEQM GPMKSPDFRP SMARDTYTPV LDTAEVAQRG TKAMVSHQSS LTSLEESRPS ELLPRKALLR AGGPHTEEPW MVSPETDSGF VGSETSIVSP FTQTPEHRLS HVSTSGPSAQ HLTASVPGDR TSHPKARGLM VPRRATETGI PRSRTQQHFS SLSSPGRGAQ SCHLEETSVA KIAVPRSEFK RQKQISKQLL PSGRTSPDSA PAPTAASTPH GSAESTANLL LNRTERDQAI KDLQAEVSRL RLQLEDSLHR PHPDGPACVA SAFNHSTQTQ EKLGSSPSWG PHYGSKSTER LSREPNGVEP AEPMGRRRAR SSSVPRDVPR LYLSSESESP APRLSSEKSR TFEEHPEAAQ WGTRPQSSSK RRERVSFRGQ YTGQEYHILS PKAILKDSGT PSCPHCHPIR TQDTGSAVSR DTTRGSSAAD TLRCALCGEV KSSAEADGSS SGPSEKNTPK KPSTPILKRK NRQTGSPVRM APGLWYLAAA PPAPAPPALA YISSAPIMPY LPPTVYYAAP APTSAQTASP QPARGPRRTR HSVQLGLNDL EELQAALREA AQAAENVRST TRQLSRSLSA DLRHARSLRG SCLF **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:	AKNA
Alternative Name:	Akna (AKNA Products)
Background:	Microtubule organization protein AKNA (AT-hook-containing transcription factor),FUNCTION: Centrosomal protein that plays a key role in cell delamination by regulating microtubule organization (PubMed:30787442). Required for the delamination and retention of neural stem cells from the subventricular zone during neurogenesis (PubMed:30787442). Also regulates the epithelial-to-mesenchymal transition in other epithelial cells (PubMed:30787442). Acts by increasing centrosomal microtubule nucleation and recruiting nucleation factors and minus-end stabilizers, thereby destabilizing microtubules at the adherens junctions and mediating constriction of the apical endfoot (PubMed:30787442). In addition, may also act as a transcription factor that specifically activates the expression of the CD40 receptor and its ligand CD40L/CD154, two cell surface molecules on lymphocytes that are critical for antigen-dependent-B-cell development (By similarity). Binds to A/T-rich promoters (By similarity). It is unclear how it can both act as a microtubule organizer and as a transcription factor, additional evidences are required to reconcile these two apparently contradictory functions (Probable). {ECO:0000250|UniProtKB:Q7Z591, ECO:0000269|PubMed:30787442, ECO:0000305}.
Molecular Weight:	153.1 kDa
UniProt:	Q80VW7

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