Datasheet for ABIN7552016

AKAP8L Protein (AA 1-646) (His tag)

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Overview

Quantity:	1 mg
Target:	AKAP8L
Protein Characteristics:	AA 1-646
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP8L protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat AKAP8L Protein expressed in mammalien cells.
Sequence:	MSYTGFVQGS ETTLQSTYSD TSAQPTCDYG YGTWNSGTNR GYEGYGYGYG YGQDNTTNYG YGMATSHSWE MPSSDTNANT SASGSASADS VLSRINQRLD MVPHLETDMM QGGVYGSGGE RYDSYESCDS RAVLSERDLY RSGYDYSELD PEMEMAYEGQ YDAYRDQFRM RGNDTFGPRA QGWARDARSG RPMASGYGRM WEDPMGARGQ CMSGASRLPS LFSQNIIPEY GMFQGMRGGG AFPGGSRFGF GFGNGMKQMR RTWKTWTTAD FRTKKKKRKQ GGSPDEPDSK ATRTDCSDNS DSDNDEGTEG EATEGLEGTE AVEKGSRVDG EDEEGKEDGR EEGKEDPEKG ALTTQDENGQ TKRKLQAGKK SQDKQKKRQR DRMVERIQFV CSLCKYRTFY EDEMASHLDS KFHKEHFKYV GTKLPKQTAD FLQEYVTNKT KKTEELRKTV EDLDGLIQQI YRDQDLTQEI AMEHFVKKVE AAHCAACDLF IPMQFGIIQK HLKTMDHNRN RRLMMEQSKK SSLMVARSIL NNKLISKKLE RYLKGENPFT DSPEEEKEQE EAEGGALDEG AQGEAAGISE GAEGVPAQPP VPPEPAPGAV SPPPPPPPEE EEEGAVPLLG GALQRQIRGI PGLDVEDDEE GGGGAP **Sequence without tag. The**

Product Details

	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.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	AKAP8L
Alternative Name:	AKAP8L (AKAP8L Products)
Background:	A-kinase anchor protein 8-like (AKAP8-like protein) (Helicase A-binding protein 95) (HAP95) (Homologous to AKAP95 protein) (HA95) (Neighbor of A-kinase-anchoring protein 95) (Neighbor of AKAP95),FUNCTION: Could play a role in constitutive transport element (CTE)-mediated gene expression by association with DHX9. Increases CTE-dependent nuclear unspliced mRNA export (PubMed:10748171, PubMed:11402034). Proposed to target PRKACA to the nucleus but does not seem to be implicated in the binding of regulatory subunit II of PKA (PubMed:10761695, PubMed:11884601). May be involved in nuclear envelope breakdown and chromatin condensation. May be involved in anchoring nuclear membranes to chromatin in interphase and in releasing membranes from chromating at mitosis (PubMed:11034899). May regulate the initiation phase of DNA replication when associated with TMPO isoform Beta

Target Details

	(PubMed:12538639). Required for cell cycle G2/M transition and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3, in this function seems to act redundantly with AKAP8 (PubMed:16980585). May be involved in regulation of pre-mRNA splicing (PubMed:17594903). {ECO:0000269|PubMed:10748171, ECO:0000269|PubMed:11034899, ECO:0000269|PubMed:11402034, ECO:0000269|PubMed:11884601, ECO:0000269|PubMed:12538639, ECO:0000269|PubMed:16980585, ECO:0000305|PubMed:10761695}., FUNCTION: (Microbial infection) In case of EBV infection, may target PRKACA to EBNA-LP-containing nuclear sites to modulate transcription from specific promoters. {ECO:0000269|PubMed:11884601}., FUNCTION: (Microbial infection) Can synergize with DHX9 to activate the CTE-mediated gene expression of type D retroviruses. {ECO:0000269|PubMed:11402034}., FUNCTION: (Microbial infection) In case of HIV-1 infection, involved in the DHX9-promoted annealing of host tRNA(Lys3) to viral genomic RNA as a primer in reverse transcription, in vitro negatively regulates DHX9 annealing activity. {ECO:0000269|PubMed:25034436}.
Molecular Weight:	71.6 kDa
UniProt:	Q9ULX6
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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