

Datasheet for ABIN7565007 AKAP8 Protein (AA 1-687) (His tag)



Overview

Quantity:	1 mg
Target:	AKAP8
Protein Characteristics:	AA 1-687
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Akap8 Protein expressed in mammalien cells.
Sequence:	MEQGYGGYGA WSAGPANTQG TYGSGMTSWQ GYENYNYYNA QNTSVPAGTP YSYGPASWEA
	TKTNDGGLAA GSPAMHVASF APEPCTDNSD SLIAKINQRL DMLSKEGGRG GISSGGEGVQ
	DRDSSFRFQP YESYDARPCI PEHNPYRPGY GYDYDFDLGT DRNGSFGGTF NDCRDPAPER
	GSLDGFLRGR GQGRFQDRSN SSTFIRSDPF MPPSASEPLS TTWNELNYMG GRGLGGPSTS
	RPPPSLFSQS MAPDYSMMGM QGVGGFGGTM PYGCGRSQTR IRDWPRRRGF ERFGPDNMGR
	KRKQFPLYEE PDAKLARADS DGDLSENDDG AGDLRSGDEE FRGEDDLCDS RKQRGEKEDE
	DEDVKKRREK QRRRDRMRDR AADRIQFACS VCKFRSFEDE EIQKHLQSKF HKETLRFIST
	KLPDKTVEFL QEYIINRNKK IEKRRQELLE KESPKPKPDP FKGIGQEHFF KKIEAAHCLA
	CDMLIPAQHQ LLQRHLHSVD HNHNRRLAAE QFKKTSLHVA KSVLNNKHIV KMLEKYLKGE
	DPFVNETADL ETEGDENVGE EKEETPEEVA AEVLAEVITA AVKAVEGEGE PAAAHSDVLT
	EVEGPVDTAE ASSDPHTEKL LEEQTCEAAS ETRSIEDKTR GEAAEARNEA AMPTADAGST

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	LPVIAIPGIM EDELEQTGAE AKDIPTE Sequence without tag. The proposed Purification-Tag
	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:	AKAP8
Alternative Name:	Akap8 (AKAP8 Products)
Background:	 A-kinase anchor protein 8 (AKAP-8) (A-kinase anchor protein 95 kDa) (AKAP 95),FUNCTION: Anchoring protein that mediates the subcellular compartmentation of cAMP-dependent protein kinase (PKA type II). Acts as an anchor for a PKA-signaling complex onto mitotic chromosomes, which is required for maintenance of chromosomes in a condensed form throughout mitosis. Recruits condensin complex subunit NCAPD2 to chromosomes required for chromatin condensation, the function appears to be independent from PKA-anchoring (By similarity). Specifically involved in recruitment of CAPD2 to, and condensation of maternal but not paternal chromosomes (PubMed:12082153). May help to deliver cyclin D/E to CDK4 to facilitate cell cycle progression (PubMed:14641107). Required for cell cycle G2/M transition
	and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of

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	chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3, in
	this function may act redundantly with AKAP8L. Involved in nuclear retention of RPS6KA1 upon
	ERK activation thus inducing cell proliferation. May be involved in regulation of DNA replication
	by acting as scaffold for MCM2. Enhances HMT activity of the KMT2 family MLL4/WBP7
	complex and is involved in transcriptional regulation. In a teratocarcinoma cell line is involved in
	retinoic acid-mediated induction of developmental genes implicating H3 'Lys-4' methylation.
	May be involved in recruitment of active CASP3 to the nucleus in apoptotic cells. May act as a
	carrier protein of GJA1 for its transport to the nucleus. May play a repressive role in the
	regulation of rDNA transcription. Preferentially binds GC-rich DNA in vitro. In cells, associates
	with ribosomal RNA (rRNA) chromatin, preferentially with rRNA promoter and transcribed
	regions (By similarity). Involved in modulation of Toll-like receptor signaling. Required for the
	cAMP-dependent suppression of TNF-alpha in early stages of LPS-induced macrophage
	activation, the function probably implicates targeting of PKA to NFKB1 (PubMed:19531803).
	{EC0:0000250 UniProtKB:043823, EC0:0000250 UniProtKB:Q63014}.
Molecular Weight:	76.3 kDa
UniProt:	Q9DBR0
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

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