

## Datasheet for ABIN7564272 CAMSAP3 Protein (AA 1-1252) (His tag)



Overview

Quantity:	1 mg
Target:	CAMSAP3
Protein Characteristics:	AA 1-1252
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CAMSAP3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Camsap3 Protein expressed in mammalien cells.
Sequence:	MVEAAPAGSG PLRRTFLVPE IKSLDQYDFS RAKAAASLAW VLRAAFGGAE HVPPELWEPF
	YTDQYAQEHV KPPVTRLLLS AELYCRAWRQ ALPQLEPSPS PSALLALLAR RGTVPSLPEH
	PVREADLKHQ PILMGAHLAV IDALMVAFSF EWTKTLPGPL ALSSLEHKLL FWVDTTVRRL
	QEKTEQEAAQ RASPAAPLDG ASPAQPSIRY RKDRAIARRA PCFPNVTTLQ DLASGAALAA
	TIHCYCPQLL RLEEVCLKDP MSVADSLYNL QLVQDFCASH LPRGCPLSLE DLLYVPPPLK
	VNLVVLLAEM YMCFEVLKPD FVQAKDLPDG HAVSPRNTET VPSQNNSGSS SPVFNFRHPL
	LSPGGPQSPL RGSTGSLKSS PSMSHMEALG KAWNRQLSRP LSQAVSFSTP FGLDSDVDVV
	MGDPVLLRSV SSDSLGPPRP VSTSSRNSAQ PAPESGDLPT IEEALQIIHS AEPRLLPDGA
	ADGSFYLHSP EGLSKPPLSP YPPEGASKPL SDRLNKAPIY ISHPENPSKS SPCSTGEILK
	PPPPSEGSPK AVASSPAANN SEVKMTSFAE RKKQLVKAEA ESGLGSPTST PVAPEALSSE
	MSELGARLEE KRRAIEAQKR RIEAIFAKHR QRLGKSAFLQ VQPREAAGEA EEEAELGSVP

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	GGERPAGEGQ GEPSLRHKSV TFSPDLGPVP PEGLGDYNRA VSKLSAALSS LQRDMQRLTD
	QQQRLLAPPE APGPAPPPAA WVIPGPATGP KAASPSPARR APAARRSPGP GPSPTPRSPK
	HARPAELKLA PLTRVLTPPH DVDSLPHLRK FSPSQVPVQT RSSILLSEGT PPEEPTTKPA
	LIEIPLASLG EPAADEEGDG SPPGAEDSLE EEASSEGEPR SGLGFFYKDE DKPEDEMAQK
	RASLLERQQR RVEEARRRKQ WQEAEKEQKR EEAARLAQEA PGLAFTTPVV ASAAPVATLA
	PTTRAMAPAE EEVGPRRGDF TRLEYERRAQ LKLMDDLDKV LRPRASGTGG PGRGGRRATR
	PRSGCCDDSA LARSPARGLL GSRLSKVYSQ STLSLSTVAN EAPNNLGVKR PTSRAPSPSG
	LMSPSRLPGS RERDWENGSN ASSPASVPEY TGPRLYKEPS AKSNKFIIHN ALSHCCLAGK
	VNEPQKNRIL EEIEKSKANH FLILFRDSSC QFRALYTLSG ETEELSRLAG YGPRTVTPAM
	VEGIYKYNSD RKRFTQIPAK TMSMSVDAFT IQGHLWQSKK PTTPKKGGGT PK 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.
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.
	<ul> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
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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:	CAMSAP3
Alternative Name:	Camsap3 (CAMSAP3 Products)

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Calmodulin-regulated spectrin-associated protein 3 (Marshalin) (Protein Nezha), FUNCTION: Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:23169647, PubMed:24706919, PubMed:26715742). Specifically recognizes growing microtubule minusends and autonomously decorates and stabilizes microtubule lattice formed by microtubule minus-end polymerization (PubMed:24706919). Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization (PubMed:24706919). In addition, it also reduces the velocity of microtubule polymerization (PubMed:24706919). Required for the biogenesis and the maintenance of zonula adherens by anchoring the minus-end of microtubules to zonula adherens and by recruiting the kinesin KIFC3 to those junctional sites (By similarity). Required for orienting the apical-to-basal polarity of microtubules in epithelial cells: acts by tethering noncentrosomal microtubules to the apical cortex, leading to their longitudinal orientation (PubMed:26715742). Plays a key role in early embryos, which lack centrosomes: accumulates at the microtubule bridges that connect pairs of cells and enables the formation of a noncentrosomal microtubule-organizing center that directs intracellular transport in the early embryo (PubMed:28860385). Couples non-centrosomal microtubules with actin: interaction with MACF1 at the minus ends of non-centrosomal microtubules, tethers the microtubules to actin filaments, regulating focal adhesion size and cell migration (By similarity). Plays a key role in the generation of non-centrosomal microtubules by accumulating in the pericentrosomal region and cooperating with KATNA1 to release non-centrosomal microtubules from the centrosome (By similarity). Through the microtubule cytoskeleton, also regulates the organization of cellular organelles including the Golgi and the early endosomes (By similarity). Through interaction with AKAP9, involved in translocation of Golgi vesicles in epithelial cells, where microtubules are mainly non-centrosomal (By similarity). Plays an important role in motile cilia function by facilitatating proper orientation of basal bodies and formation of central microtubule pairs in motile cilia (PubMed:32482850). {ECO:0000250|UniProtKB:Q9P1Y5, ECO:0000269|PubMed:23169647, ECO:0000269|PubMed:24706919, ECO:0000269|PubMed:26715742, ECO:0000269|PubMed:28860385, ECO:0000269|PubMed:32482850}.

Molecular Weight:	135.2 kDa
UniProt:	Q80VC9
Pathways:	Cell-Cell Junction Organization, Maintenance of Protein Location

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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