Datasheet for ABIN7564498

# CAMSAP2 Protein (AA 1-1461) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | CAMSAP2 (CAMSAP1L1) |
| Protein Characteristics: | AA 1-1461 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CAMSAP2 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Camsap2 Protein expressed in mammalian cells. |
| Sequence: | MGDAADPREM RRTFIVPAIK PFDHYDFSRA KIACNLAWLV AKAFGTENVP EELGDPFYTD QYDQEHIKPP VVNLLLSAEL YCRAGSLILK SDAAKPLLGH DAVIQALAQK GLYVTDQEKL VTERDLHKKP IQMSAHLAMI DTLMMAYTVE MISIEKVIAC AQQYSAFFQA TDLPYDIEDA VMYWMNKVNE HLKDIMEQEQ KSKEHHPAEA PGGQKARYRK EQTLLKQLPC IPLVENLLKD GTDGCALAAL IHFYCPAVVR LEDICLKETM SLADSLYNLQ LIQEFCQEYL NHCCHFSLED MLYAASSIKS NYLVFMAELF WWFEVVKPSF VQPRVVRPQG AEPAKDVPSV PVLNAAKRNI RDSSSSSDFS SRYTRPQTHS SASGGIRRSS SMSYVDGFIG TWPKEKRTSV HGVSFDISFD KEDSAQSSTP NRGIIRSVSN EGLTLNNSRA SKHIRKNLSF KPVNGEEEES IEEELHVDPH GDLQSPMPLN TNELNSNEST HYKLPNGALQ NRVLLDEFGN QIETPSIEEA LQIIHDTERP PHTPRPDQIA NGFFLHGQDL SILNSNIKLN QSSPDNLTDT KGALSPITDT TEVDTGIHVP SEDIPETMDE DSSLRDYTVS LDSDMDDASK LLQDYDLRAS NPREALSPCP STISTKSQPG SSASSSSGVK MTSFAEQKFR KLNHTDGKSS GSSSQKTTPE GSELNIPHVV SWAQIPEEAG |

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| | VAPGRDTTQL LASEMVHLRM RLEEKRRAIE AQKKKMEAAF TKQRQKMGRT AFLTVVKKKG EGISPLREEA AGAEDEKVYT DRAKERESQK MDGQRSKSLA DIKESMETPP GRWLKSPTTP VDPERQWNLT SPSEETLNEG EILEYTKSIE KLNSSLHFLQ QEMQRLSLQQ EMLMQMREQQ AWVISPPQPS PQKQIRDFKP RQAGLSSAAA PFSSDSPRPT HPSPQSSTRK SASFSVKNQR TPRPNELKIT PLNRTLTPPR SVDSLPRLRR FSPSQVPIQT RSFVCFGDDG EPQKEPKQKE EIKKEPSECK GTLGPCDHNP GEKEIKPVES TVSEVLSQPI TETVCVTPNE DQLSQPTEPP PKPVFPPTAP KNVNLIEVSL SDLKPPEKAD VSVEKLDGES DKEQFDDDQK VCCGFFFKDD QKAENDMAMK RAALLEKRLR REKETQLRKQ QLEAEMEHKK EETRRKTEEE RQKKEDERAR REFIRQEYMR RKQLKLMEDM DTVIKPRPQA AKQKKQRPKS IHRDHIESPK TPIKGPPVSS LSLASLNTGD SESVHSGKRT PRSESVEGFL SPSRCGSRNG EKDWENASTT SSVASGTEYT GPKLYKEPSA KSNKHIIQNA LAHCCLAGKV NEGQKKKILE EMEKSDANNF LILFRDSGCQ FRSLYTYCPE TEEINKLTGI GPKSITKKMI EGLYKYNSDR KQFSHIPAKT LSASVDAITI HSHLWQTKRP VTPKKLLPTK A **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:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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

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| Target: | CAMSAP2 (CAMSAP1L1) |
| Alternative Name: | Camsap2 (CAMSAP1L1 Products) |
| Background: | Calmodulin-regulated spectrin-associated protein 2 (Calmodulin-regulated spectrin-associated protein 1-like protein 1),FUNCTION: Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:23169647). Specifically recognizes growing microtubule minus-ends and autonomously decorates and stabilizes microtubule lattice formed by microtubule minus-end polymerization (By similarity). Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization (By similarity). In addition, it also reduces the velocity of microtubule polymerization (By similarity). Through the microtubule cytoskeleton, also regulates the organization of cellular organelles including the Golgi and the early endosomes (By similarity). Essential for the tethering, but not for nucleation of non-centrosomal microtubules at the Golgi: together with Golgi-associated proteins AKAP9 and PDE4DIP, required to tether non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (By similarity). Also acts as a regulator of neuronal polarity and development: localizes to non-centrosomal microtubule minus-ends in neurons and stabilizes non-centrosomal microtubules, which is required for neuronal polarity, axon specification and dendritic branch formation (By similarity). Through the microtubule cytoskeleton, regulates the autophagosome transport (By similarity). {ECO:0000250\|UniProtKB:Q08AD1}. |
| Molecular Weight: | 164.3 kDa |
| UniProt: | Q8C1B1 |

## Application Details

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| 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

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |

## Handling

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| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |