

Datasheet for ABIN7552833

## CAMSAP1 Protein (AA 1-1602) (His tag)



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### Overview

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Quantity:                     | 1 mg                                           |
| Target:                       | CAMSAP1                                        |
| Protein Characteristics:      | AA 1-1602                                      |
| Origin:                       | Human                                          |
| Source:                       | HEK-293 Cells                                  |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This CAMSAP1 protein is labelled with His tag. |

### Product Details

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| Purpose:  | Custom-made recombinant CAMSAP1 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence: | <p>MVDASGRAAA EGWRKMEAPP DGAADLVPLD RYDAARAKIA ANLQWICAKA YGRDNIPEDL</p> <p>RDPFYVDQYE QEHIKPPVIK LLLSSELYCR VCSLILKGDQ VAALQGHQSV IQALSRKGIY</p> <p>VMESDDTPVT ESDLSRAPIK MSAHMAMVDA LMMAYTVEMI SIEKVVASVK RFSTFSASKE</p> <p>LPYDLEDAMV FWINKVNLKM REITEKEVKL KQQLLESPAH QKVRYRREHL SARQSPYFPL</p> <p>LEDLMRDGSD GAALLAVIHY YCPEQMKLDD ICLKEVTSMA DSLYNIRLLR EFSNEYLNKC</p> <p>FYLTLEDMLY APLVLKPNVM VFIAELFWWF ENVKPDFVQP RDVQELKDAK TVLHQKSSRP</p> <p>PVPISNATKR SFLGSPAAGT LAELQPPVQL PAEGCHRHYL HPEEPEYL GK GTAAFSPSHP</p> <p>LLPLRQKQKQ SIQGEDIPDQ RHRSNSLTRV DGQPRGAAIA WPEKKTRPAS QPTPFALHHA</p> <p>ASCEVDPSSG DSISLARSIS KDSLASNIVN LTPQNQPHT ATKSHGKSLL SNVSIEDEEE</p> <p>ELVAIVRADV VPQQADPEFP RASPRALGLT ANARSPQGQL DTSESKPDSF FLEPLMPAVL</p> <p>KPAKEKQVIT KEDERGEGRP RSIVSRRPSE GPQPLVRRKM TGSRDNLNRTF TPICSEFPM</p> <p>GIDPTETGPL SVETAGEVCG GPLALGGFDP FPQGPSTDGF FLHVGRADED TEGRLYVSCS</p> |

KSPNSHDSEP WTLLRQSDSDS DVVDIEEAH DFMGEAHPVV FSRYGEEES AKLQEDMKVK  
EHEDKDDASG RSSPCLSTAS QMSSVSMASG SVKMTSFAER KLQRLNSCET KSSTSSSQKT  
TPDASESCPA PLTTWRQKRE QSPSQHGKDP ASLLASELVQ LHMQLLEEKRR AIEAQKKKME  
ALSARQRLKL GKAAFLHVVK KGKAEAAPPL RPEHFAKEYS QHNGEDCGDA VSKTEDFLVK  
EEQREELLHE PQDVKESLA FAQQHKAKDP VALHELERNK VISAALLEDT VGEVVDVNEC  
DLSIEKLNIT ISTLQQAILK ISQQEQLLM KSPTVPVPGS KNNSQDHVKV APVHFVEPLS  
PTGVAGHRKA PRLGQGRNSR SGRPAELKVP KDRPQGSSRS KTPTPSVETL PHLRPFPASS  
HPRTPTDPGL DSALEPSGDP HGKCLFDSYR LHDESNQRTL TLSSSKDANI LSEQMSLKEV  
LDASVKEVGS SSSDVSGKES VPVEEPLRSR ASLIEVDLSD LKAPDEDGEL VSLDGSADLV  
SEGDQKPGVG FFFKDEQKAE DELAKKRAAF LLKQQRKAAE ARVRKQQLEA EVELKRDEAR  
RKAEDRVRK EEEKARRELI KQEYLRRKQQ QILEEQGLGK PKSKPKKPRP KSVHREESCS  
DSGTKCSSTP DNLSRTQSGS SLSLASAATT EPESVHSGGT PSQRVESMEA LPILSRNPSR  
STDRDWETAS AASSLASVAE YTGPKLFKEP SSKSNKPIIH NAISHCCLAG KVNEPHKNSI  
LEELEKCDAN HYILFRDAG CQFRALYCY YPDTEEIYKLT GTGPKNITKK MIDKLYKYSS  
DRKQFNLIPA KTMSVSVDAL TIHNHLWQPK RPAVPKKAQT RK **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: | <p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p> |

## Product Details

|         |                                                                                               |
|---------|-----------------------------------------------------------------------------------------------|
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade:  | custom-made                                                                                   |

## Target Details

|                   |                                              |
|-------------------|----------------------------------------------|
| Target:           | CAMSAP1                                      |
| Alternative Name: | CAMSAP1 ( <a href="#">CAMSAP1 Products</a> ) |

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | Calmodulin-regulated spectrin-associated protein 1,FUNCTION: Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:19508979, PubMed:21834987, PubMed:24486153, PubMed:24706919, PubMed:24117850). Specifically recognizes growing microtubule minus-ends and stabilizes microtubules (PubMed:24486153, 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:24486153, PubMed:24706919). In contrast to CAMSAP2 and CAMSAP3, tracks along the growing tips of minus-end microtubules without significantly affecting the polymerization rate: binds at the very tip of the microtubules minus-end and acts as a minus-end tracking protein (-TIP) that dissociates from microtubules after allowing tubulin incorporation (PubMed:24486153, PubMed:24706919). Through interaction with spectrin may regulate neurite outgrowth (PubMed:24117850). {ECO:0000269 PubMed:19508979, ECO:0000269 PubMed:21834987, ECO:0000269 PubMed:24117850, ECO:0000269 PubMed:24486153, ECO:0000269 PubMed:24706919}. |
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|                   |                        |
|-------------------|------------------------|
| Molecular Weight: | 178.0 kDa              |
| UniProt:          | <a href="#">Q5T5Y3</a> |

## 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

|         |                                                                  |
|---------|------------------------------------------------------------------|
| Format: | Liquid                                                           |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |

## Handling

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|                  |                                    |
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| Handling Advice: | Avoid repeated freeze-thaw cycles. |
|------------------|------------------------------------|

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