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CAMSAP2 Protein (AA 1-1461) (Strep Tag)



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Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | CAMSAP2 (CAMSAP1L1) |
| Protein Characteristics: | AA 1-1461 |
| Origin: | Mouse |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CAMSAP2 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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

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 Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- · 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- · During lysate production, the cell wall and other cellular components that are not required for

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system-all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Target:

Crystallography grade

CAMSAP2 (CAMSAP1L1)

Target Details

Alternative Name: Camsap2 (CAMSAP1L1 Products)

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

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.

Comment:

ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

Handling

Format: Liquid

Buffer:

The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling

| Handling Advice: | Avoid repeated freeze-thaw cycles. |
|------------------|------------------------------------|
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |