Datasheet for ABIN3137377

COPG2 Protein (AA 1-871) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	COPG2
Protein Characteristics:	AA 1-871
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This COPG2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MIKKFDKKDE ESGSGSNPFQ HLEKSAVLQE ARIFNETPIN PRRCLHILTK ILYLLNQGEH FGTMEATEAF FAMTRLFQSN DQTLRRMCYL TIKEMATISE DVIIVTSSLT KDMTGKEDVY RGPAIRALCR ITDGTMLQAV ERYMKQAIVD KVSSVASSAL VSSLHMMKIS YDVVKRWINE AQEAASSDNI MVQYHALGVL YHLRKNDRLA VSKMLNKFTK SGLKSQFAYC MLIRIASRLL KESEDGHESP LFDFIESCLR NKHEMVIYEA ASAIIHLPNC TARELAPAVS VLQLFCSSPK PALRYAAVRT LNKVAMKHPS AVTACNLDLE NLITDSNRSI ATLAITTLLK TGSESSVDRL MKQISSFVSE ISDEFKVVVV QAISALCHKY PRKHSVMMTF LSNMLRDDGG FEYKKAIVDC IISIVEENPE SKEAGLAHLC EFIEDCEHTV LATKILHLLG KEGPRTPVPS KYIRFIFNRV VLENEAVRAA AVSALAKFGA QNESLLPSIL VLLQRCMMDT DDEVRDRATF YLNVLQQRQM ALNATYIFNG LTVSIPGMEK ALHQYTLEPS EKPFDMKSIP LAMAPVFEQK SEITLVTPKP EKLAPSRQDI FQEQLAAIPE FMNLGPLFKS SEPVQLTEAE TEYFVRCVKH MFTDHIVFQF

DCTNTLNDQL LEKVTVQMEP SDSYEVLCCI PAPSLPYNQP GICYTLVRLP DEDPTAVAGT FSCTMKFTVR DCDPNTGVPD EDGYDDEYVL EDLEVTVSDH IQKILKPNFA AAWEEVGDAF EKEETFALSS TKTLEEAVNN IITFLGMQPC ERSDKVPENK NSHSLYLAGV YRGGYDLLVR SRLALADGVT MQVTVRSKER TPVDVILASV G

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

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

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	COPG2
Alternative Name:	Copg2 (COPG2 Products)
Background:	Coatomer subunit gamma-2 (Gamma-2-coat protein) (Gamma-2-COP),FUNCTION: The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins, the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity). {ECO:0000250}.
Molecular Weight:	97.7 kDa
UniProt:	Q9QXK3

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months