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Datasheet for ABIN3115923

Usp30 Protein (AA 1-517) (rho-1D4 tag)

1 Image

Overview

Quantity:	1 mg
Target:	Usp30
Protein Characteristics:	AA 1-517
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Usp30 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MLSSRAEAAM TAADRAIQRFLRTGAAVRYK VMKNWGVIGG IAAALAAGIY VIWGPITERK
KRRKGLVPGL VNLGNTCFMN SLLQGLSACP AFIRWLEEF SQYSRDQKEP PSHQYLSLTL
LHLLKALSCQ EVTDDVELDA SCLLDVLRMY RWQISSFEEQ DAHEL FHVIT SSLEDERDRQ
PRVTHLFDVH SLEQQSEITP KQITCRTRGS PHPTSNHWKS QHPFHGRLTS NMVCKHCEHQ
SPVRFDTFDS LLSIPAATW GHPLTLDHCL HFFISSESVR DVVCDNCTKI EAKGTLNGEK
VEHQRTTFVK QLKLGKLPQC LCIHLQRLSW SSHGTPPKRH EHVQFNEFLM MDIYKYHLLG
HKPSQHNPKL NKNPGPTLEL QDGP GAPT PV LNQPGAPKTQ IFMNGACSPS LLPTLSAPMP
FPLPVPDYS SSTYLFRLMA VVVHHGDMHS GHFVTYRRSP PSARNPLSTS NQWLWVSDDT
VRKASLQEV L SSSAYLLFYE RVL SRMQHQ S QECKSEE

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human USP30 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin-free.

Grade:

Crystallography grade

Target Details

Target:	Usp30
Alternative Name:	USP30 (Usp30 Products)
Background:	Deubiquitinating enzyme tethered to the mitochondrial outer membrane that acts as a key inhibitor of mitophagy by counteracting the action of parkin (PARK2): hydrolyzes ubiquitin attached by parkin on target proteins, such as RHOT1/MIRO1 and TOMM20, thereby blocking parkin's ability to drive mitophagy (PubMed:18287522, PubMed:24896179, PubMed:25527291, PubMed:25621951). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate to mitophagic signaling (PubMed:25621951). Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (PubMed:25527291). Acts as negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2 (By similarity). {ECO:0000250 UniProtKB:Q3UN04, ECO:0000269 PubMed:18287522, ECO:0000269 PubMed:24896179, ECO:0000269 PubMed:25527291, ECO:0000269 PubMed:25621951}.
Molecular Weight:	59.7 kDa Including tag.
UniProt:	Q70CQ3

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:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process