antibodies

Datasheet for ABIN3116812 STT3B Protein (AA 2-826) (rho-1D4 tag)



Overview

Image

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | STT3B |
| Protein Characteristics: | AA 2-826 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This STT3B protein is labelled with rho-1D4 tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

Product Details

| Sequence: | AEPSAPESKH KSSLNSSPWS GLMALGNSRH GHHGPGAQCA HKAAGGAAPP KPAPAGLSGG |
|-----------|---|
| | LSQPAGWQSL LSFTILFLAW LAGFSSRLFA VIRFESIIHE FDPWFNYRST HHLASHGFYE |
| | FLNWFDERAW YPLGRIVGGT VYPGLMITAG LIHWILNTLN ITVHIRDVCV FLAPTFSGLT |
| | SISTFLLTRE LWNQGAGLLA ACFIAIVPGY ISRSVAGSFD NEGIAIFALQ FTYYLWVKSV |
| | KTGSVFWTMC CCLSYFYMVS AWGGYVFIIN LIPLHVFVLL LMQRYSKRVY IAYSTFYIVG |
| | LILSMQIPFV GFQPIRTSEH MAAAGVFALL QAYAFLQYLR DRLTKQEFQT LFFLGVSLAA |
| | GAVFLSVIYL TYTGYIAPWS GRFYSLWDTG YAKIHIPIIA SVSEHQPTTW VSFFFDLHIL |
| | VCTFPAGLWF CIKNINDERV FVALYAISAV YFAGVMVRLM LTLTPVVCML SAIAFSNVFE |
| | HYLGDDMKRE NPPVEDSSDE DDKRNQGNLY DKAGKVRKHA TEQEKTEEGL GPNIKSIVTM |
| | LMLMLLMMFA VHCTWVTSNA YSSPSVVLAS YNHDGTRNIL DDFREAYFWL RQNTDEHARV |
| | MSWWDYGYQI AGMANRTTLV DNNTWNNSHI ALVGKAMSSN ETAAYKIMRT LDVDYVLVIF |
| | GGVIGYSGDD INKFLWMVRI AEGEHPKDIR ESDYFTPQGE FRVDKAGSPT LLNCLMYKMS |

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| | YYRFGEMQLD FRTPPGFDRT RNAEIGNKDI KFKHLEEAFT SEHWLVRIYK VKAPDNRETL |
|------------------|--|
| | DHKPRVTNIF PKQKYLSKKT TKRKRGYIKN KLVFKKGKKI SKKTV |
| | Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a |
| | special request, please contact us. |
| Characteristics: | Made in Germany - from design to production - by highly experienced protein experts. Human STT3B 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 protoin is a mode to order protoin and will be mode for the first time for your order. Our |
| | 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 rolded protein. |
| | I he 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 receival 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: |
| | Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 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. 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. |
| | |

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| Product Details | |
|---------------------|---|
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin-free. |
| Grade: | Crystallography grade |
| Target Details | |
| Target: | STT3B |
| Alternative Name: | STT3B (STT3B Products) |
| Background: | Catalytic subunit of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. N- glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER). STT3B is present in a small subset of OST complexes and mediates both cotranslational and post-translational N-glycosylation of target proteins: STT3B- containing complexes are required for efficient cotranslational glycosylation, they have the ability to mediate glycosylation of some nascent sites that are not accessible for STT3A. STT3B-containing complexes also act post-translationally and mediate modification of skipped glycosylation sites in unfolded proteins. Plays a role in ER-associated degradation (ERAD) pathway that mediates ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins by mediating N-glycosylation of unfolded proteins, which are then recognized by the ERAD pathway and targeted for degradation. Mediates glycosylation of the disease variant AMYL-TTR 'Asp-38' of TTR at 'Asn-118', leading to its degradation. {ECO:0000269 PubMed:19167329, ECO:0000269 PubMed:22607976}. |
| Molecular Weight: | 94.7 kDa Including tag. |
| UniProt: | Q8TCJ2 |
| 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 gurantee though. |
| Comment: | In cases in which it is highly likely that the recombinant protein with the default tag will be |

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| Application Details | |
|---------------------|---|
| | 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 |
| 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

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