

Datasheet for ABIN7563271  
**SYT1 Protein (AA 1-421) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SYT1
Protein Characteristics:	AA 1-421
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Syt1 Protein expressed in mammalien cells.
Sequence:	<p>MVSASRPEAL AAPVTTVATL VPHNATEPAS PGEKEDAFS KLKQKFMNEL HKIPLPPWAL IAIAIVAVLL VVTCCFCVCK KCLFKKKKNNK KGKEKGGKNA INMKDVKDLG KTMKDQALKD DDAETGLTDG EEKEEPKEEE KLGKLQYSLD YDFQNNQLLV GIIQAAELPA LDMGGTSDPY VKVFLLPDKK KKFETKVHRK TLNPFVNEQF TFKVPYSELG GKTLVMAVYD FDRFSKHDII GEFKVPMNTV DFGHVTEEWR DLQSAEKEEQ EKLGDICFSL RYVPTAGKLT VVILEAKNLK KMDVGGGLSDP YVKIHLMQNG KRLKKKTTI KKNTLNPYYN ESFSFEVPFE QIQKVQVVVT VLDYDKIGKN DAIGKVFVGY NSTGAELRHW SDMLANPRRP IAQWHTLQVE EEVDAMLAVK K</p> <p><b>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.</b></p>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: SYT1

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Alternative Name: Syt1 ([SYT1 Products](#))

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Background: Synaptotagmin-1 (Synaptotagmin I) (SytI) (p65),FUNCTION: Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:11242035). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner, these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (By similarity). {ECO:0000250|UniProtKB:P21579, ECO:0000269|PubMed:11242035, ECO:0000269|PubMed:7961887}.

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Molecular Weight: 47.4 kDa

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UniProt: [P46096](#)

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Pathways: [Synaptic Vesicle Exocytosis](#), [Dicarboxylic Acid Transport](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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