

Product datasheet

Recombinant Human SYT1 protein ab108130

1 Image

Description	
Product name	Recombinant Human SYT1 protein
Purity	> 85 % SDS-PAGE. ab108130 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	<b><u>P21579</u></b>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MEPKEEEKLGKLGKQYSLDYDFQNNQLLVGIIQAAELPALDM GGTSDPYVKV FLLPDKKKKFETKVHRKTLNPVFNEQFTFKVPYSELGGKT LVMAVYDFDR FSKHDIIGEFKVPMTVDFGHVTEEWRDLQSAEKEEQEK LGDICFSLRYV PTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRL KKKKTTIKKN TLNPYYNESFSFEVPFEQIQKVQVVVTVLDYDKIGKNDIG KVFVGYNLE HHHHHH
Predicted molecular weight	30 kDa including tags
Amino acids	136 to 382
Tags	His tag C-Terminus

Specifications	
Our <b><u>Abpromise guarantee</u></b> covers the use of <b>ab108130</b> in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	SDS-PAGE Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.0308% DTT, 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

## General Info

### Function

May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. 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.

### Sequence similarities

Belongs to the synaptotagmin family.  
Contains 2 C2 domains.

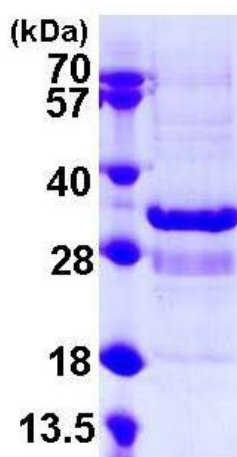
### Domain

The first C2 domain mediates Ca(2+)-dependent phospholipid binding.  
The second C2 domain mediates interaction with SV2A and STN2.

### Cellular localization

Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cytoplasmic vesicle > secretory vesicle > chromaffin granule membrane. Cytoplasm. Synaptic vesicles and chromaffin granules.

## Images



15% SDS-PAGE analysis of 3µg ab108130.

SDS-PAGE - Recombinant Human SYT1 protein  
(ab108130)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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