# SYT1 Lysate – Tissue Lysate

## PRODUCT OVERVIEW

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| **Product Name** | SYT1, Lysate |
| **Full Product Name** | Human SYT1 Protein Lysate |
| **Product Gene Name** | SYT1 lysate |
| **Product Synonym Names** | SYT1; P65; SVP65; SYT |
| **Form/Format** | Lyophilized |
| **Preparation and Storage** | Store at -20 degree C<br>This protein lysate can be reconsituted using SDS Sample Buffer. Once reconsituted, aliquot and store any remaining material at -20 degree C to avoid repeated freeze-thaw cycles. |
| **Molecular Weight** | 29.5kDa (256aa), confirmed by MALDI-TOF |
| **3D Structure** | ModBase 3D Structure for P21579 |
| **Species** | Human |
| **Related Product Information for SYT1 lysate** | Human SYT1 Protein Lysate 20ug is provided as a Lyophilized powder.<br>This is a Recombinant Protein Lysate produced in HEK293T cells. |
| **Other Notes** | Small volumes of SYT1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for SYT1 purchase** | MBS8428160 is a lysate targeting SYT1. Also known as Human SYT1 Protein Lysate. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYT1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 5032139 |
| **NCBI GeneID** | 6857 |
| **NCBI Accession #** | NP_005630 |
| **UniProt Primary Accession #** | P21579 |
| **UniProt Secondary Accession #** | Q6AI31 |
| **UniProt Related Accession #** | P21579 |
| **GenBank Nucleotide #** | NM_005639 |
| **NCBI Official Full Name** | synaptotagmin-1 isoform 1 |
| **NCBI Official Synonym Full Names** | synaptotagmin 1 |
| **NCBI Official Symbol** | SYT1 |
| **NCBI Official Synonym Symbols** | P65; SYT; SVP65 |
| **Protein Family** | ARF guanine-nucleotide exchange factor |
| **NCBI Protein Information** | synaptotagmin-1 |

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| **NCBI Summary for SYT1** | The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010] |
| **Research Articles on SYT1** | **1.** findings show extended Synaptotagmi1 (E-Syt1), along with related E-Syt3, negatively modulates viral release into the extracellular milieu, cell-to-cell viral spread and viral entry, processes that implicate membrane fusion events; , these E-Syt proteins impacted formation of virus-induced syncytia; findings hint at the modulation of the viral fusion machinery by the E-Syt family of proteins |
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