# SYT6 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SYT6, Polyclonal Antibody |
| **Full Product Name** | SYT6 Antibody |
| **Product Gene Name** | anti-SYT6 antibody |
| **Product Synonym Names** | Synaptotagmin 6; Synaptotagmin VI; Synaptotagmin-6; Synaptotagmin6; SynaptotagminVI; Syt 6; Syt VI; SYT6; SYT6_HUMAN; SytVI |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| **Concentration** | 1mg/ml (lot specific) |
| **Specificity** | SYT6 Antibody detects endogenous levels of SYT6. |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |
| **Antibody/Peptide Pairs** | SYT6 peptide (MBS9632175) is used for blocking the activity of SYT6 antibody (MBS9629792) |
| **Molecular Weight** | 48,442 Da |
| **3D Structure** | ModBase 3D Structure for Q5T7P8 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Immunogen** | A synthesized peptide derived from human SYT6. |
| **Conjugation** | Unconjugated |
| **Similarity** | The cysteine motif mediates homo- or heterodimer formation via formation of disulfide bonds. Belongs to the synaptotagmin family. |
| **Subunit Structure** | Isoform 1: Homodimer; disulfide-linked via the cysteine motif. Isoform 1: Can also form heterodimers with SYT3, SYT7, SYT9 and SYT10. Isoform 1: Interacts with STX1A, STX1B and STX2; the interaction is Ca(2+)-dependent. Isoform 2: Is not able to form homodimer and heterodimers. |
| **Function** | May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. May mediate Ca(2+)-regulation of exocytosis in acrosomal reaction in sperm (By similarity). |
| **Note** | Localized predominantly to endoplasmic reticulum (ER) and/or Golgi-like perinuclear compartment (By similarity).Cytoplasm>Cytosol. Cell membrane>Peripheral membrane protein. |
| **Product Categories/Family for anti-SYT6 antibody** | Cytoplasmic vesicle; Secretory vesicle; Synaptic vesicle membrane; Single-pass membrane protein; Membrane; Primary |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |

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| **Applications Tested/Suitable for anti-SYT6 antibody** | ELISA (EIA)(peptide) |
| **Application Notes for anti-SYT6 antibody** | ELISA(peptide): 1:20000-1:40000 |
| **Related Product Information for anti-SYT6 antibody** | MBS9629792 is an antibody targeting SYT6. Also known as SYT6 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-SYT6 antibody 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYT6. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 27924398 |
| **NCBI GeneID** | 148281 |
| **NCBI Accession #** | AAH44948.1 |
| **UniProt Primary Accession #** | Q5T7P8 |
| **UniProt Secondary Accession #** | B1AMB8; B3KPK1 |
| **UniProt Related Accession #** | Q5T7P8 |
| **NCBI Official Full Name** | Synaptotagmin VI |
| **NCBI Official Synonym Full Names** | synaptotagmin 6 |
| **NCBI Official Symbol** | SYT6 |
| **NCBI Official Synonym Symbols** | sytVI |
| **UniProt Protein Name** | Synaptotagmin-6 |
| **UniProt Synonym Protein Names** | Synaptotagmin VI; SytVI |
| **Protein Family** | Synaptotagmin |
| **UniProt Gene Name** | SYT6 |
| **UniProt Synonym Gene Names** | SytVI |
| **NCBI Protein Information** | synaptotagmin-6 |
| **NCBI Summary for SYT6** | The protein encoded by this gene belongs to the synaptotagmin family. Synaptotagmins share a common domain structure that includes a transmembrane domain and a cytoplasmic region composed of 2 C2 domains, and are involved in calcium-dependent exocytosis of synaptic vesicles. This protein has been shown to be a key component of the secretory machinery involved in acrosomal exocytosis. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2011] |
| **UniProt Comments for SYT6** | May be involved in Ca2+-dependent exocytosis of secretory vesicles through Ca2+ and phospholipid binding to the C2 domain or may serve as Ca2+ sensors in the process of vesicular trafficking and exocytosis. May mediate Ca2+-regulation of exocytosis in acrosomal reaction in sperm (). |
| **Research Articles on SYT6** | **1.** synaptotagmin must be dephosphorylated at a specific window of time and phosphorylated synaptotagmin has an active role at early stages of the acrosomal exocytosis. |
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