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Datasheet for 612-401-E33

# Synapsin I phospho S62 + S67 Antibody

## Overview

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|---|---|
| **Description:** | Anti-Synapsin I pS62/pS67 (RABBIT) Antibody - 612-401-E33 |
| **Item No.:** | 612-401-E33 |
| **Size:** | 100 µL |
| **Applications:** | WB |
| **Reactivity:** | Rat |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | Synapsin I pS62/67 antibody detects phosphorylated Synapsin I, which plays a key role in synaptic plasticity in brain. This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. The role of synapsin in synaptic plasticity and in synaptogensis is regulated by phosphorylation. Ser 549 along with Ser 62 and Ser 67 are the sites of Synapsin I that are phosphorylated by MAP kinase. Anti-Synapsin I pS62/pS67 Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research. |
| **Synonyms:** | Synapsin I, SYN1, Synapsin-1 |
| **Host Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | Syn1 |
| **Reactivity:** | Rat |
| **PTM Specificity:** | Phosphorylation |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | Anti-Synapsin I pS62/pS67 Antibody was produced in rabbit by repeated immunizations with synthetic phospho-peptide corresponding to amino acid residues surrounding Ser62/67 of Synapsin I protein. |
| **Purity/Specificity:** | Anti-Synapsin I pS62/67 antibody is directed against phosphorylated rat Synapsin I at residues oS62/pS67. Synapsin I pS62/67 antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling of the synapsin I band is blocked by preadsorption with the phospho-peptide used as antigen but not be the corresponding non-phosphophorylated peptide. Reactivity is expected from the following species based on 100% sequence homology: mouse and bovine. |
| **Relevant Links:** | • UniProtKB - P09951<br>• GeneID - 24949<br>• NCBI - NP_001104252.1 |

## Application Details

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| **Tested Applications:** | WB |
| **Application Note:** | Anti-Synapsin I pS62/pS67 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 78 kDa in size corresponding to synapsin I doublet phosphorylated at Ser62/67 in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | 1:1000 |
| **Other:** | Titrated value sufficient to run approximately 10 mini blots. |

## Formulation

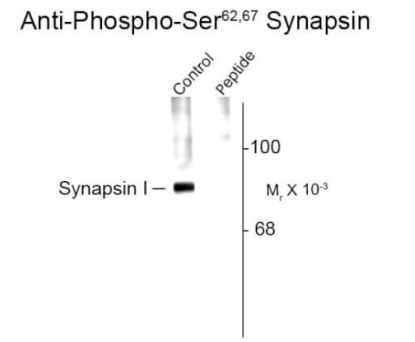
| | |
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| **Physical State:** | Liquid |
| **Concentration:** | 10 titrated reagent |
| **Buffer:** | 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 |
| **Stabilizer:** | 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |

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| **Storage Condition:** | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




Western blot of rat cortex lysate showing phosphospecific immunolabeling of the ~78k synapsin protein phosphorylated at Ser62,67.

**Western Blot**
Western Blot of Rabbit anti-Synapsin I pS62/pS67 antibody. Lane 1: rat cortex lysate (control). Lane 2: Peptide. Load: 10 µg per lane. Primary antibody: Synapsin I pS62/pS67 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 78 kDa for Synapsin I pS62/pS67. Other band(s): none.

## Disclaimer

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