

# Munc18-1 Rabbit mAb

Catalog # AP76604

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC-P, IP          |
| <b>Primary Accession</b> | <a href="#">P61764</a> |
| <b>Reactivity</b>        | Rat, Human, Mouse      |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Monoclonal Antibody    |
| <b>Isotype</b>           | IgG                    |
| <b>Conjugate</b>         | Unconjugated           |
| <b>Purification</b>      | Affinity Purified      |
| <b>Calculated MW</b>     | 67569                  |

## Additional Information

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| <b>Gene ID</b>     | 6812                                                                                            |
| <b>Other Names</b> | STXBP1                                                                                          |
| <b>Dilution</b>    | WB~~1:1000 IHC-P~~N/A IP~~N/A                                                                   |
| <b>Format</b>      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| <b>Storage</b>     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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| <b>Name</b>              | STXBP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>          | UNC18A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>          | Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating the assembly of the SNARE complex at synaptic membranes (By similarity). May play a role in determining the specificity of intracellular fusion reactions. |
| <b>Cellular Location</b> | Cytoplasm, cytosol. Membrane; Peripheral membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tissue Location</b>   | Brain and spinal cord. Highly enriched in axons.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Background

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May participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio.

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