

Munc18-3

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Cat.No. 116 203; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1: 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC: not tested yet
Immunogen	Synthetic peptide corresponding to AA 575 to 593 from rat Munc18-3 (UniProt Id: Q99PV2)
Reactivity	Reacts with: rat (Q99PV2). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for Munc 18-3, no cross-reactivity to Munc 18-1 and Munc 18-2.
matching control	116-2P

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Munc 18 is an abundant neuronal protein that tightly binds to the synaptic fusion protein syntaxin 1. It is highly homologous to the C. elegans unc-18 gene product, and weakly related to the yeast sec1, sly1, and slp1 genes.

There are three munc 18 isoforms in mammals. **Munc 18-1** or 18a, also referred to as **rb-sec1**, **stxbp1** and **p67**, is primarily expressed in neurons. **Munc 18-2** or 18b, also referred to as **stxbp2**, and Munc 18-3 or 18c are expressed ubiquitously.

Selected General References

Molecular identification of two novel Munc-18 isoforms expressed in non-neuronal tissues.

Tellam JT, McIntosh S, James DE

The Journal of biological chemistry (1995) 270(11): 5857-63.

Slp4-a/granuphilin-a interacts with syntaxin-2/3 in a Munc18-2-dependent manner.

Fukuda M, Imai A, Nashida T, Shimomura H

The Journal of biological chemistry (2005) 280(47): 39175-84.

Evidence of a role for Munc18-2 and microtubules in mast cell granule exocytosis.

Martin-Verdeaux S. Pombo I. Jannascoli B. Roa M. Varin-Blank N. Rivera J. Blank U

Journal of cell science (2003) 116(Pt 2): 325-34.

Munc18-2, a functional partner of syntaxin 3, controls apical membrane trafficking in epithelial cells.

Riento K. Kauppi M. Keranen S. Olkkonen VM

The Journal of biological chemistry (2000) 275(18): 13476-83.

A novel ubiquitous form of Munc-18 interacts with multiple syntaxins. Use of the yeast two-hybrid system to study interactions between proteins involved in membrane traffic.

Hata Y, Südhof TC

The Journal of biological chemistry (1995) 270(22): 13022-8.

n-Sec1: a neural-specific syntaxin-binding protein.

Pevsner J, Hsu SC, Scheller RH

Proceedings of the National Academy of Sciences of the United States of America (1994) 91(4): 1445-9.

A rat brain Sec1 homologue related to Rop and UNC18 interacts with syntaxin.

Garcia EP, Gatti E, Butler M, Burton J, De Camilli P

Proceedings of the National Academy of Sciences of the United States of America (1994) 91(6): 2003-7.

Synaptic vesicle fusion complex contains unc-18 homologue bound to syntaxin.

Hata Y, Slaughter CA, Südhof TC

Nature (1993) 366(6453): 347-51.