

# Product Datasheet

## Synaptotagmin 3 Antibody (ASV48) - BSA Free NBP1-19320

Unit Size: 0.05 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-19320**

Synaptotagmin 3 Antibody (ASV48) - BSA Free

**Product Information**

<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	ASV48
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.2) and 50% Glycerol

**Product Description**

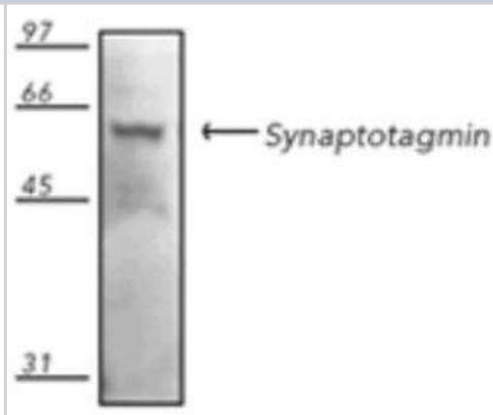
<b>Host</b>	Mouse
<b>Gene ID</b>	84258
<b>Gene Symbol</b>	SYT3
<b>Species</b>	Mouse, Rat, Fish, Primate
<b>Reactivity Notes</b>	Recognizes Shark and Monkey. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Immunogen</b>	Rat brain synaptic junction protein complexes

**Product Application Details**

<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 0.1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	Detects a band of ~65kDa by Western blot.

**Images**

Western Blot: Synaptotagmin Antibody (ASV48) [NBP1-19320] - Analysis of rat brain tissue extract.



## Publications

Amaury François, Sarah A. Low, Elizabeth I. Sypek, Amelia J. Christensen, Chaudy Sotoudeh, Kevin T. Beier et al. A Brainstem-Spinal Cord Inhibitory Circuit for Mechanical Pain Modulation by GABA and Enkephalins Neuron 2017-02-22 [PMID: 28162807]

Lu H, Chen S, Nie Q et al. Synaptotagmin -3 Interacts with GluA2 Mediates Brain Damage and Functional Recovery in Stroke SSRN Electronic Journal 2022-03-24 [PMID: 36892998]

Fukuda M, Kanno E, Ogata Y et al. Nerve growth factor-dependent sorting of synaptotagmin IV protein to mature dense-core vesicles that undergo calcium-dependent exocytosis in PC12 cells. J Biol Chem. 2003-01-01 [PMID: 12446703]

Fukuda M, Kowalchuk JA, Zhang X et al. Synaptotagmin IX regulates Ca<sup>2+</sup>-dependent secretion in PC12 cells. J Biol Chem. 2002-02-01 [PMID: 11751925]

Ibata K, Fukuda M, Hamada T et al. Synaptotagmin IV is present at the Golgi and distal parts of neurites. J Neurochem. 2000-02-01 [PMID: 10646502]

Koontz MA, Hendrickson AE. Comparison of immunolocalization patterns for the synaptic vesicle proteins p65 and synapsin I in macaque monkey retina. Synapse. 1993-08-01 [PMID: 8248851]

Matthew WD, Tsavaler L, Reichardt LF et al. Identification of a synaptic vesicle-specific membrane protein with a wide distribution in neuronal and neurosecretory tissue. J Cell Biol. 1981-10-01 [PMID: 7298720]





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-19320**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP2-51650-0.1mg	Recombinant Human Synaptotagmin 3 His Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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