

# Product Datasheet

## VMAT2 Antibody - BSA Free

### NB110-68123

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB110-68123**

VMAT2 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	55.7 kDa
Product Description	
Host	Rabbit
Gene ID	6571
Gene Symbol	SLC18A2
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Reacts with human, mouse, and rat VMAT2 protein. Rabbit reactivity reported in scientific literature (PMID: 20665056)
Specificity/Sensitivity	VMAT2
Immunogen	Reacts with an internal sequence of the human, mouse and rat VMAT2 protein.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:100-1:250, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen 1:100-1:250
Application Notes	This antibody is useful for Western Blot. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 20815037). Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 24161354). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.



## Publications

Jung, D H, Ahn, S M Et al. Therapeutic effects of anodal transcranial direct current stimulation in a rat model of ADHD. *Elife* 2020-09-21 [PMID: 32955434] (IF/IHC, Mouse)

Cao SX, Wen CX, Sun R et al. ErbB4 regulate extracellular dopamine through the p38 MAPK signaling pathway *Neuroscience letters* 2021-03-17 [PMID: 33722543] (WB)

Ma, K;Han, C;Zhang, G;Guo, X;Xia, Y;Wan, F;Yin, S;Kou, L;Liu, L;Huang, J;Xiong, N;Wang, T; Reduced VMAT2 expression exacerbates the hyposmia in the MPTP model of Parkinson's disease *Biochem. Biophys. Res. Commun.* 2019-05-28 [PMID: 30954223] (WB, Mouse)

Gemechu JM, Sharma A, Yu D et al. Characterization of Dopaminergic System in the Striatum of Young Adult Park2 -/- Knockout Rats *Sci Rep* 2018-01-24 [PMID: 29367643] (WB, Rat)

Lin CC, Tung CS, Lin PH et al. Traumatic stress causes distinctive effects on fear circuit catecholamines and the fear extinction profile in a rodent model of posttraumatic stress disorder. *Eur Neuropsychopharmacol.* 2016-09-01 [PMID: 27492886] (WB, Rat)

Choi W, Kim H, Xia Z. JNK inhibition of VMAT2 contributes to rotenone-induced oxidative stress and dopamine neuron death. *Toxicology.* 2014-12-09 [PMID: 25496994] (WB)

Hong F, Liu L, Fan RF et al. New perspectives of vesicular monoamine transporter 2 chemical characteristics in mammals and its constant expression in type 1 diabetes rat models. *Transl Res.* 2013-10-06 [PMID: 24161354] (ICC/IF, IHC-Fr, Rat)

Sala G, Brighina L, Saracchi E et al. Vesicular monoamine transporter 2 mRNA levels are reduced in platelets from patients with Parkinson's disease. *J Neural Transm.* 2010-09-01 [PMID: 20665056] (WB, Rabbit)

Iritani S, Sekiguchi H, Habuchi C et al. Immunohistochemical study of vesicle monoamine transporter 2 in the hippocampal region of genetic animal model of schizophrenia. *Synapse*;64(12):948-53. 2010-12-01 [PMID: 20815037] (IHC-Fr, Mouse)

Shin EJ, Duong CX, Nguyen XK, Li Z, Bing G, Bach JH, Park DH, Nakayama K, Ali SF, Kanthasamy AG, Cadet JL, Nabeshima T, Kim HC. Role of oxidative stress in methamphetamine-induced dopaminergic toxicity mediated by protein kinase C delta. *Behav Brain Res*;232(1):98-113. 2012-04-09 [PMID: 22512859] (WB, Mouse)





### **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 NB110-68123**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00006571-Q01-10ug	Recombinant Human VMAT2 GST (N-Term) Protein

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### **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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