

Product Datasheet

VIAAT/SLC32A1/VGAT Antibody - BSA Free NB110-55238-0.025 ml

Unit Size: 0.025 ml

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

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NB110-55238-0.025 ml

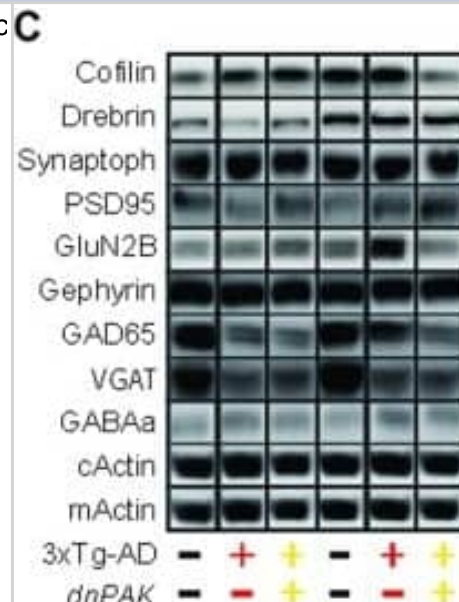
VIAAT/SLC32A1/VGAT Antibody - BSA Free

Product Information	
Unit Size	0.025 ml
Concentration	4.3 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	10mM PBS (pH 7.4)
Target Molecular Weight	57 kDa
Product Description	
Description	Novus Biologicals Rabbit VIAAT/SLC32A1/VGAT Antibody - BSA Free (NB110-55238) is a polyclonal antibody validated for use in WB and ELISA. Anti-VIAAT/SLC32A1/VGAT Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	140679
Gene Symbol	SLC32A1
Species	Mouse, Rat
Reactivity Notes	Rat, Mouse. This sequence is identical in rat VGAT and highly conserved (single a.a. substitution) in human VGAT.
Specificity/Sensitivity	VGAT
Immunogen	Synthetic peptide corresponding to amino acids 1-20 located at the N-terminus of mouse VGAT.
Product Application Details	
Applications	Western Blot, ELISA, Microarray
Recommended Dilutions	Western Blot 2-4 ug/ml, ELISA, Microarray
Application Notes	Use in ELISA reported in scientific literature (PMID 24772072)



Images

Reducing PAK activity counteracts the enhancement of the glutamatergic synaptic tone observed in 3xTg-AD mice (A) Experimental design for patch clamp recordings of layer II/III pyramidal cells of the medial prefrontal cortex. (B) While the mean frequency of mEPSCs was comparable between the three genotypes, the mean amplitude of mEPSCs was larger in 3xTg-AD mice. This phenomenon was not present in 3xTg-AD-dnPAK mice. (n=5 to 6 cells per group), **p<0.01, oop<0.01, Fisher LSD post hoc test (C and D). A significant reduction in GAD65 and VGAT expression was observed in both 3xTg-AD and 3xTg-AD-dnPAK animals when compared with NonTg animals (N=12-13 mice for NonTg, N=19-21 mice for 3xTg-AD and N=16-17 mice for 3xTg-AD-dnPAK). Examples of Western blots were taken from the same immunoblot experiment for each primary antibody, on the same gel but run in a random order, and rearranged in the same order as the graphs (separated by black lines). **p<0.01, one way ANOVA Tukey-Kramer post hoc test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/28522792>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Arsenault D, Tremblay C, Emond V, Calon F Sex-dependent alterations in the physiology of entorhinal cortex neurons in old heterozygous 3xTg-AD mice Biol Sex Differ 2020-11-16 [PMID: 33198813] (WB, Mouse)

Bories C, Arsenault D, Lemire M et al. Transgenic autoinhibition of p21-activated kinase exacerbates synaptic impairments and fronto-dependent behavioral deficits in an animal model of Alzheimer's disease. Aging (Albany NY). 2017-05-16 [PMID: 28522792] (WB, Mouse)

Gruol Donna L, Vo Khanh, Bray Jennifer G, Roberts Amanda J. CCL2-ethanol interactions and hippocampal synaptic protein expression in a transgenic mouse model. Front Integr Neurosci. 2014-04-04 [PMID: 24772072] (ELISA, Mouse)

Nelson TE, Olde Engberink A, Hernandez R et al. Altered synaptic transmission in the hippocampus of transgenic mice with enhanced central nervous systems expression of interleukin-6. Brain Behav Immun. 2012-05-17 [PMID: 22609298] (WB, Mouse)



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