Product Datasheet

GAT3 Antibody - BSA Free
NBP1-91920

Unit Size: 0.1 ml

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

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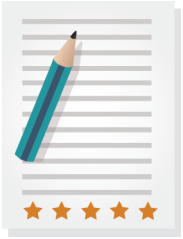
Updated 3/4/2026 v.20.1



NBP1-91920

GAT3 Antibody - BSA Free

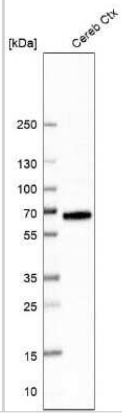
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

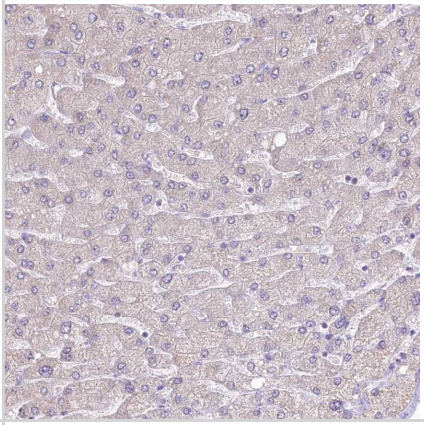
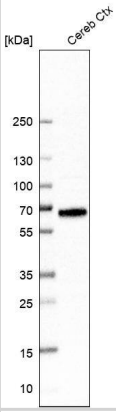
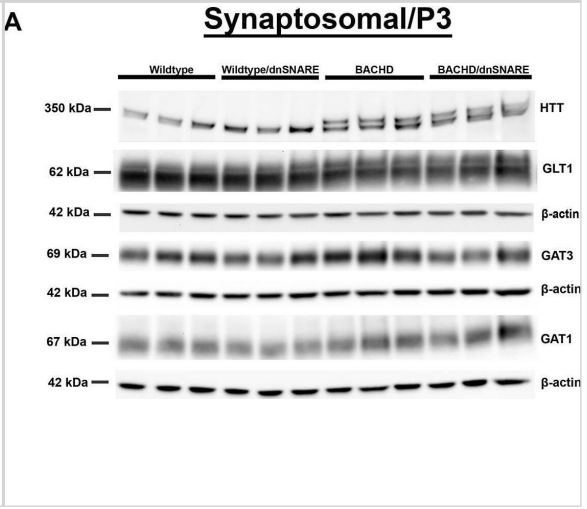
Product Description	
Host	Rabbit
Gene ID	6538
Gene Symbol	SLC6A11
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (85%), Rat (87%)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: GTLPEKLQKLTTPSTDLKMRGKLGVSPRMVTVNDCDAKLKSDGTIAAITEKETH F

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

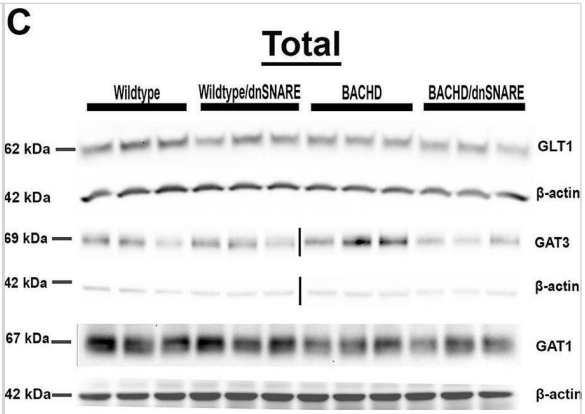
Images

Western Blot: GAT3 Antibody [NBP1-91920] - Analysis in human cerebral cortex tissue.



Staining of human Liver shows no positivity in hepatocytes as expected.	
Analysis in human cerebral cortex tissue.	
Glutamate and GABA transporter levels in the synaptosomal fraction. (A) Representative western blots of glutamate and GABA transporter protein expression in wild-type, wild-type/dnSNARE, BACHD and BACHD/dnSNARE mice. (B) Western blot quantification of the transporters (shown are n=3 independent samples). HTT was probed to confirm the genotype of sample mice on the same blot probed for GAT1 (same β-actin loading control as shown for GAT1). No significant difference was observed in GLT1, GAT3 and GAT1 (n=5-6/genotype). Data are mean+/-s.e.m. Differences among the groups were assessed by one-way ANOVA followed by Tukey's HSD multiple comparison procedure. Non-significant P-values are not displayed on graphs. Refer to Table 1 for all P-values. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39526491), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Expression of neurotransmitter transporters. (A,B) Representative RNAscope images of Slc6a1, Slc6a11and Gja1 in the striatum. Scale bars: 50 µm. The numbers of Gja1-positive cells co-labeled with Slc6a1 (encoding GAT1) or Slc6a11 (encoding GAT3) were counted. (C) Representative western blots of GLT1, GAT3 and GAT1 protein expression in the striatum of wild-type, wild-type/dnSNARE, BACHD and BACHD/dnSNARE mice (each lane represents a single sample; each sample is pooled from three mice of the same genotype). (D) Western blot quantification of GLT1, GAT3 and GAT1 (n=6/genotype). WT, wild type. The loading control β-actin shown for GAT1 in C is the same as the β-actin shown for Cx43 in Fig. 5A. The same membrane was probed for β-actin, GAT1 and Cx43. The loading control β-actin shown for GLT1 in C is the same as the β-actin used for GFAP in Fig. 5A. GLT1 and GFAP were probed on the same blot membrane. Data are mean+/-s.e.m. Differences among the groups were assessed by one-way ANOVA followed by Tukey's HSD multiple comparison procedure. Non-significant P-values are not displayed on graphs. Refer to Table 1 for all P-values. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/39526491), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

King AC, Payne E, Stephens E et Al. Modulation of SNARE-dependent exocytosis in astrocytes improves neuropathology in Huntington's disease Dis Model Mech 2024-11-01 [PMID: 39526491]

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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