

# Product Datasheet

## GABA-A R delta Antibody - Azide Free NB300-200

Unit Size: 0.1 ml

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

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**NB300-200**

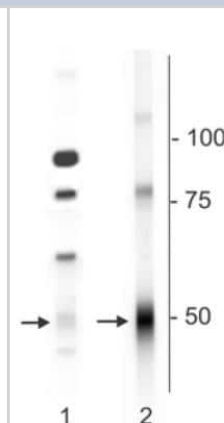
GABA-A R delta Antibody - Azide Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<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>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
<b>Target Molecular Weight</b>	50 kDa
<b>Product Description</b>	
<b>Description</b>	As of 1/20/2017, this is a new lot of this antibody. It was produced by the same methods, using the same fusion protein antigen in new animals.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2563
<b>Gene Symbol</b>	GABRD
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Human reactivity reported in scientific literature (PMID: 22609410).
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~50 kDa delta-subunit of the GABAA receptor.
<b>Immunogen</b>	Fusion protein from the N-terminus of the delta subunit. Accession # P18506
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 10 ul/50 ug lysate, Immunohistochemistry-Frozen 1:250, Knockout Validated
<b>Application Notes</b>	Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 22609410). Knockout Validated reported in scientific literature (PMID: 31209152).



## Images

Western Blot: GABA-A R delta Antibody [NB300-200] - mouse whole brain (1) and mouse synaptic plasma membrane (2) lysates showing specific immunolabeling of the Approx. 50 kDa GAMMA-subunit of the GABAA-R.



## Publications

Zhang W, Liu T, Li J, Singh J et Al. Decreased extrasynaptic  $\gamma$ -GABA(A) receptors in PNN-associated parvalbumin interneurons correlates with anxiety in APP and tau mouse models of Alzheimer's disease *Br J Pharmacol* 2024-06-17 [PMID: 38886118]

Crofton EJ, O'Buckley TK, Bohnsack JP et al. Divergent Population-Specific Effects of Chronic Ethanol Exposure on Excitability and Inhibitory Transmission in Male and Female Rat Central Amygdala *The Journal of neuroscience : the official journal of the Society for Neuroscience* 2023-09-01 [PMID: 37657933] (WB)

Lacaille H, Vacher CM, Penn AA. Preterm Birth Alters the Maturation of the GABAergic System in the Human Prefrontal Cortex *Frontiers in Molecular Neuroscience* 2022-02-03 [PMID: 35185465] (Western Blot, Block/Neutralize)

Morrison, K E, Cole, A B Et al. Pubertal adversity alters chromatin dynamics and stress circuitry in the pregnant brain. *Neuropsychopharmacology* 2020-07-01 [PMID: 32045935] (WB, Human)

Michalettos G, Walter HL, Antunes ARP Et al. Effect of Anti-inflammatory Treatment with AMD3100 and CX3CR1 Deficiency on GABAA Receptor Subunit and Expression of Glutamate Decarboxylase Isoforms After Stroke *Molecular neurobiology* 2021-08-20 [PMID: 34417725] (WB, Mouse)

Sharma D, Dixit AB, Dey S et al. Increased levels of alpha 4-containing GABAA receptors in focal cortical dysplasia: A possible cause of benzodiazepine resistance *Neurochemistry international* 2021-05-27 [PMID: 34052299]

Trent S, Hall J, Connelly WM, Errington AC *Cyfp1 Haploinsufficiency Does Not Alter GABAA Receptor delta-Subunit Expression and Tonic Inhibition in Dentate Gyrus PV+ Interneurons and Granule Cells G3 (Bethesda)*. 2019-06-28 [PMID: 31209152] (WB, Knockout Validated, Mouse)

Chen X, Li Z, Zhang B et al. Alleviation of mechanical allodynia by 14,15-EET in a central post-stroke pain model: possible role of allopregnanolone and dGABAAR *J Pain* 2018-11-27 [PMID: 30500366] (WB, Rat)

Popoola DO, Cameron NM. Maternal care-related differences in males and females rats' sensitivity to ethanol and the associations between the GABAergic system and steroids in males. *Dev Psychobiol*. 2018-02-14 [PMID: 29442358] (WB, Rat)

Popoola DO, Nizhnikov ME, Cameron NM. Strain-specific programming of prenatal ethanol exposure across generations. *Alcohol: An International Biomedical Journal* 2017-01-03 [PMID: 28433421] (WB, Rat)

Borrow AP, Cameron NM, . Maternal care and affective behavior in female offspring: Implication of the neurosteroid/GABAergic system. *Psychoneuroendocrinology* 2017-02-01 [PMID: 27883962]

Chugh D, Ali I, Bakochi A et al. Alterations in Brain Inflammation, Synaptic Proteins, and Adult Hippocampal Neurogenesis during Epileptogenesis in Mice Lacking Synapsin2. *PLoS ONE* 2015-07-16 [PMID: 26177381] (WB, Mouse)

More publications at <http://www.novusbio.com/NB300-200>



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### **Products Related to NB300-200**

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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
NBP2-33421PEP	GABA-A R delta Recombinant Protein Antigen

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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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