

Product Datasheet

GABA-AR alpha 1 Antibody - Azide Free NB300-191

Unit Size: 0.1 ml

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

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NB300-191

GABA-AR alpha 1 Antibody - Azide Free

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	51 kDa

Product Description

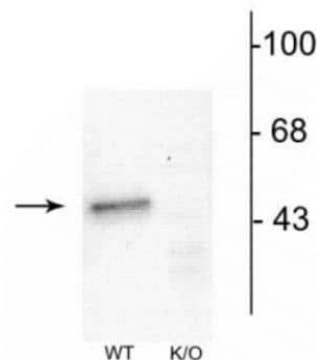
Host	Rabbit
Gene ID	2554
Gene Symbol	GABRA1
Species	Human, Mouse, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 22927941)
Specificity/Sensitivity	Specific for endogenous levels of the ~51 kDa alpha1-subunit of the GABAA receptor. Immunolabeling is absent in alpha1-subunit knockout animals.
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH. Accession # P62813

Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Frozen 1:100, Knockout Validated
Application Notes	Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 22927941). Use in immunoprecipitation reported in scientific literature (PMID: 17404840).

Images

Western Blot: GABA-A R alpha 1 Antibody [NB300-191] - Mouse forebrain lysates from Wild Type (WT) and alpha 1-knockout (K/O) animals showing specific immunolabeling of the ~51 kDa alpha 1-subunit of the GABAA-R. The labeling was absent from a lysate prepared from alpha 1-knockout animals.



Publications

- Bach EC, Morgan JW, Ewin SE et al. Chronic Ethanol Exposures Leads to a Negative Affective State in Female Rats That Is Accompanied by a Paradoxical Decrease in Ventral Hippocampus Excitability *Frontiers in Neuroscience* 2021-04-30 [PMID: 33994940] (Western Blot)
- 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)
- Carlson SL, O'Buckley TK, Thomas R et al. Altered GABAA Receptor Expression and Seizure Threshold Following Acute Ethanol Challenge in Mice Lacking the RIIbeta Subunit of PKA. *Neurochem Res.* 2013-10-09 [PMID: 24104609] (WB, Mouse)
- Marutha Ravindran CR, Mehta AK, Ticku MK. Effect of chronic administration of ethanol on the regulation of tyrosine kinase phosphorylation of the GABAA receptor subunits in the rat brain. *Neurochem Res* 2007-07-01 [PMID: 17404840] (IP, Rat)
- Shen Y, Lindemeyer AK, Spigelman I et al. Plasticity of GABAA receptors after ethanol pre-exposure in cultured hippocampal neurons *Mol Pharmacol* 2011-03-01 [PMID: 21163967] (WB, Mouse)
- Mendu SK, Bhandage A, Jin Z, Birnir B. Different subtypes of GABA-A receptors are expressed in human, mouse and rat T lymphocytes *PLoS One* 2012-01-01 [PMID: 22927941] (ICC/IF, Rat, Human, Mouse)
- Lin TY, Lu CW, Wang CC et al. Hispidulin inhibits the release of glutamate in rat cerebrocortical nerve terminals *Toxicol Appl Pharmacol* 2012-07-01 [PMID: 22759588] (WB, Rat)
- Kumar S, Ren Q, Beckley JH, O'Buckley TK, Gigante ED, Santerre JL, Werner DF, Morrow AL. Ethanol Activation of Protein Kinase A Regulates GABA(A) Receptor Subunit Expression in the Cerebral Cortex and Contributes to Ethanol-Induced Hypnosis. *Front Neurosci*;6:44. 2012-01-01 [PMID: 22509146] (WB, Rat)
- Suryanarayanan A, Liang J, Meyer EM et al. Subunit Compensation and Plasticity of Synaptic GABA(A) Receptors Induced by Ethanol in γ 4 Subunit Knockout Mice. *Front Neurosci*;5:110. 2011-01-01 [PMID: 21977012] (WB, Mouse)
- Kumar S, Suryanarayanan A, Boyd KN et al. Ethanol reduces GABAA alpha1 subunit receptor surface expression by a protein kinase Cgamma-dependent mechanism in cultured cerebral cortical neurons. *Mol Pharmacol*;77(5):793-803. 2010-05-01 [PMID: 20159950] (ICC/IF, Rat)
- Mehta AK, Ticku MK. Prevalence of the GABAA receptor assemblies containing alpha1-subunit in the rat cerebellum and cerebral cortex as determined by immunoprecipitation: lack of modulation by chronic ethanol administration. *Brain Res Mol Brain Res*;67(1):194-9. 1999-04-06 [PMID: 10101248] (IP, Rat)





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Products Related to NB300-191

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-33762PEP	GABA-AR alpha 1 Recombinant Protein Antigen

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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