

# Product Datasheet

## mGluR5/1 Antibody - Azide Free

### NB300-126

Unit Size: 0.1 ml

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

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**NB300-126**

mGluR5/1 Antibody - Azide Free

**Product Information**

<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>	125 kDa

**Product Description**

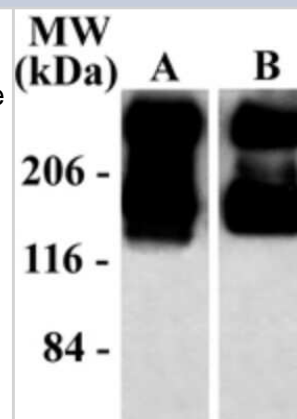
<b>Host</b>	Rabbit
<b>Gene ID</b>	2915
<b>Gene Symbol</b>	GRM5
<b>Species</b>	Mouse, Rat
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 15608650).
<b>Specificity/Sensitivity</b>	Specific for endogenous levels of the ~125 kDa monomer and the ~250 kDa dimers of mGluR5 and mGluR1. Immunolabeling blocked by preadsorption of antibody with the peptide used to generate the antibody.
<b>Immunogen</b>	Synthetic peptide corresponding to amino acid residues from the C-terminal region conjugated to KLH. Accession # P31424

**Product Application Details**

<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen 1:500
<b>Application Notes</b>	Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 30868621).

**Images**

Western Blot: metabotropic Glutamate Receptor 5/1 Antibody [NB300-126] - 10 ug of HEK 293 cells expression. As shown in the autoradiograph, the mGluR5/1a antibody recognizes both mGluR5 (Lane A) and mGluR1a (Lane B) labeling the ~125k monomer and the ~250k dimers for both mGluRs.



## Publications

Lee K, Vyas Y, Garner CC, Montgomery JM. Autism-associated Shank3 mutations alter mGluR expression and mGluR-dependent but not NMDA receptor-dependent long-term depression Synapse 2019-03-13 [PMID: 30868621] (ICC/IF, Rat)

Kaittanis C, Andreou C, Hieronymus H et al. Prostate-specific membrane antigen cleavage of vitamin B9 stimulates oncogenic signaling through metabotropic glutamate receptors. J. Exp. Med. 2017 Nov 15 [PMID: 29141866] (ICC/IF, Human)

Cheyne JE, Grant L, Butler-Munro C et al. Synaptic integration of newly generated neurons in rat dissociated hippocampal cultures. Mol Cell Neurosci 2011-07-01 [PMID: 21569851] (Rat)

Spanagel, R et al. The clock gene Per2 influences the glutamatergic system modulates alcohol consumption. Nature Medicine 2005. [PMID: 15608650] (WB, Mouse)





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### **Products Related to NB300-126**

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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
NBP2-22203	ERK1 Antibody (1E5) - BSA Free

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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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