

Product Datasheet

mGluR1 Antibody - BSA Free

NB100-93555

Unit Size: 0.1 mg

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

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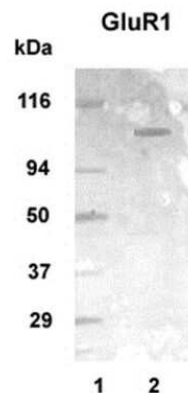
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	132.4 kDa
Product Description	
Host	Rabbit
Gene ID	2911
Gene Symbol	GRM1
Species	Human, Mouse, Rat
Reactivity Notes	This antibody is reactive against Human, Mouse, Rat
Specificity/Sensitivity	mGluR1, Synthetic peptide comprising internal residues of the human GluR1 alpha protein. Reacts with rat and mouse mGluR1.
Immunogen	Synthetic peptide comprising internal residues of the human metabotropic GluR1 alpha protein. Reacts with rat and mouse GluR1.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen
Application Notes	This antibody is useful for Western blot 1:500-1:1000, and immunohistochemistry 1:100-1:500. Immunocytochemistry/Immunofluorescence and Immunohistochemistry-Frozen were reported in scientific literature. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

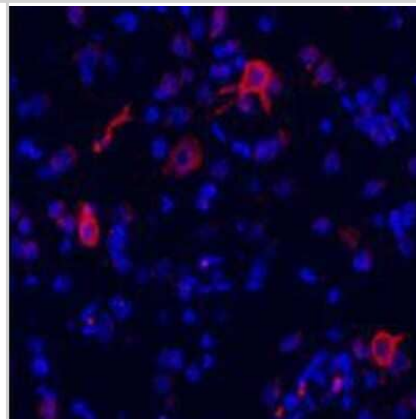
Immunohistochemistry: mGluR1 Antibody [NB100-93555] - Immunohistochemical detection of mGluR and 5-HTR subtypes in dLGN of Galphaq/Galpha11^{-/-}. mGluR1alpha-specific antibodies caused strong staining. 5-HT2CR and mGluR1alpha did not appear to be somatically expressed. Scale bars indicate 100 um. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fncel.2010.00132/abstract>) licensed under a CC-BY license.



Western Blot: mGluR1 Antibody [NB100-93555] - Detection of metabotropic Glutamate Receptor 1a protein in 20ug of human brain lysate (lane 2) with the use of NB100-93555 as a primary antibody at 1:1000 dilution and an AP conjugated secondary antibody at 1:5000 dilution. Lane 1 represents the MW marker.



Immunohistochemistry: mGluR1 Antibody [NB100-93555] - Recommended dilution for IHC is 1:100-500. However, the investigator should determine the optimal dilution for a specific application.



Immunohistochemistry: mGluR1 Antibody [NB100-93555] - Immunohistochemical detection of mGluR and 5-HTR subtypes in dLGN of Galpha11^{-/-} mice. mGluR1alpha-specific antibodies caused strong staining as in the dLGN of Galphaq/Galpha11^{-/-} mice. Scale bars indicate 100 um. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fncel.2010.00132/abstract>) licensed under a CC-BY license.



Immunocytochemistry/ Immunofluorescence: mGluR1 Antibody - BSA Free [NB100-93555] - Immunohistochemical staining of mGluR1 α & MAP2. Neurons of the dLGN were stained using specific antibodies against microtubule associated protein 2 (MAP2) & against mGluR1 α conjugated to Cy2 & Cy3, respectively. While MAP2 was clearly present in the soma, mGluR1 α appears to be absent there. Scale bars indicate 10 μ m. Image collected & cropped by CiteAb from the following publication (<http://journal.frontiersin.org/article/10.3389/fncel.2010.00132/abstract>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Coulon P, Kanyshkova T, Broicher T et al. Activity Modes in Thalamocortical Relay Neurons are Modulated by G(q)/G(11) Family G-proteins - Serotonergic and Glutamatergic Signaling. *Front Cell Neurosci* 2010-10-25 [PMID: 21267426] (IHC-Fr, ICC/IF, Mouse)



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Products Related to NB100-93555

NBL1-11335	GluR1 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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