Human mGluR2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 455311

Catalog Number: MAB46761

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR2 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 455311
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived human mGluR2 Glu19-Ser498 Accession # Q14416
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

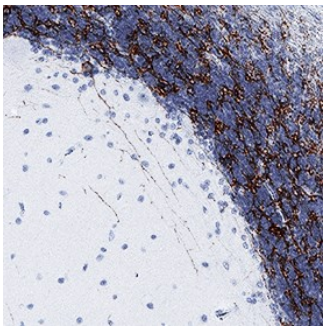
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunohistochemistry	5-25 µg/mL	See Below

DATA

Immunohistochemistry



mGluR2 in Human Brain. mGluR2 was detected in immersion fixed paraffin-embedded sections of human brain (cerebellum) using Mouse Anti-Human mGluR2 Monoclonal Antibody (Catalog # MAB46761) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell membranes in Purkinje neurons and in granular cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Metabotropic glutamate receptor 2 (mGluR2, also known as GPRC1B and GRM2) is an 872 aa, predicted 96 kDa multipass G protein coupled inhibitory receptor (GPCR) belonging to group II of the metabotropic glutamate receptor family. The receptor functions as an autoreceptor for glutamate, that upon activation, inhibits the emptying of vesicular contents at the presynaptic terminal of glutamatergic neurons. It is localized largely on the presynaptic side of glutamatergic and other neurotransmitter synapses in areas of the forebrain. mGluR2 activity is potentially involved in some anxiety disorders. The long N-terminal extracellular region of human mGluR2 (aa 1-498) shares 97% aa identity with either mouse or rat mGluR2.

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