Human mGluR2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 455310

Catalog Number: MAB4676

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with the N-terminal regions of recombinant human mGluR1, -3, -4, -5, -7, or -8 is observed.
Source	Monoclonal Mouse IgG_{2B} Clone # 455310
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant 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.

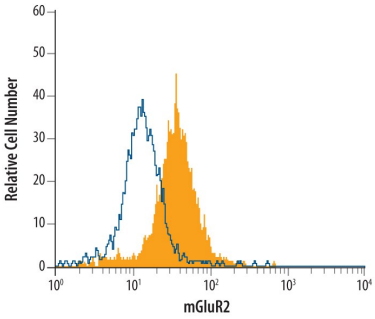
APPLICATIONS

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
Western Blot	1 µg/mL	Recombinant Human mGluR2
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Intracellular Staining by Flow Cytometry



Detection of mGluR2 in U-118-MG Human Cell Line by Flow Cytometry. U-118-MG human glioblastoma/astrocytoma cell line was stained with Mouse Anti-Human mGluR2 Monoclonal Antibody (Catalog # MAB4676, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG $F(ab')_2$ Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

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) is an 872 aa, predicted 96 kDa multipass G protein coupled inhibitory receptor belonging to group II of the metabotropic glutamate receptor family. 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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