

Human mGluR3 Antibody

Monoclonal Mouse IgG2B Clone # 530510 Catalog Number: MAB46681

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human mGluR3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 530510
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human mGluR3 Asp25-Ser507 Accession # Q14832
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.

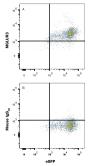
APPLICATIONS

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
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

Flow Cytometry



Detection of mGluR3 in HEK293 Human Cell Line Transfected with Human mGluR3 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with human mGluR3 and eGFP was stained with (A) Mouse Anti-Human mGluR3 Monoclonal Antibody (Catalog # MAB46681) or (B) Mouse IgG2B isotype control antibody (Catalog # Catalog # MAB0041) followed by APC conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog #F0101B). Staining was performed using our Staining Membraneassociated Proteins protocol.

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 3 (mGluR3) is a 90-100 kDa, 7-transmembrane glycoprotein that belongs to group II of the C-family of G-protein coupled receptors. It is a presynaptic receptor expressed on both neurons and glia, whose activation reduces adenylate cyclase activity. Mature human mGluR3 is 857 amino acids in length and contains a 554 amino acid (aa) N-terminal extracellular domain (ECD) (aa 23-576). The ECD binds glutamate and forms homodimers. There is one alternative splice form that is soluble, 515 aa in length and shows a 96 aa substitution for aa 442-879. Over aa 25-507, human mGluR3 shares 97% aa sequence identity with mouse and rat mGluR3 and 67% aa sequence identity with hGluR2.

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