

DESCRIPTION

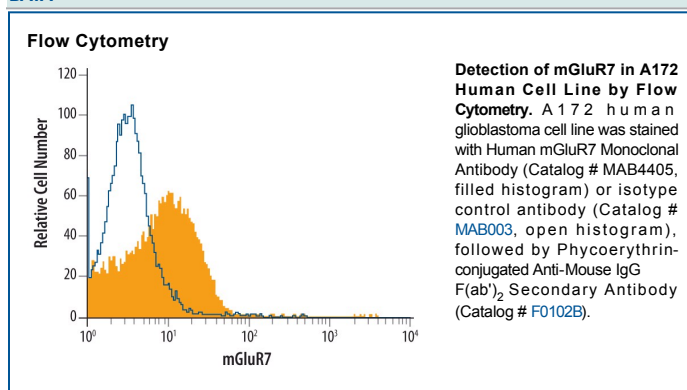
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human mGluR7. Stains human mGluR7 transfectants but not irrelevant transfectants. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 437310 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | HEK293 human embryonic kidney cell line transfected with human mGluR7 Gln35-Ile915 Accession # Q14831 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. |

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 | 2.5 µg/10 ⁶ cells | See Below |

DATA



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. |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted. |

BACKGROUND

Metabotropic glutamate receptor 7 (mGluR7), also called GRM7 (G protein-coupled metabotropic glutamate receptor 7) is a 102 kDa member of the GRM family of 7-transmembrane G protein-coupled receptors. mGluR7 is concentrated in the hippocampus and the amygdala and has a putative role in anxiety and spatial working memory. Within the 555 aa N-terminal extracellular domain, human mGluR7 shares > 99% aa identity with mouse, rat and dog mGluR7 and 90% aa identity with chicken mGluR7. Five isoforms (911-924 aa) vary at the C-terminus and are differentially expressed.