

DESCRIPTION

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| 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 |
| Conjugate | Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

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 | 0.25-1 µg/10 ⁶ cells | A172 human glioblastoma cell line |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied. |

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.

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