

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human mGluR7. Stains human mGluR7 transfectants but not irrelevant transfectants.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 437310
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	HEK293 human embryonic kidney cell line transfected with human mGluR7 Gln35-Ile915 Accession # Q14831
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	A172 human glioblastoma cell line

#### PREPARATION AND STORAGE

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

#### 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.

#### PRODUCT SPECIFIC NOTICES

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