

# Human mGluR3 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG<sub>2B</sub> Clone # 530503

Catalog Number: FAB4668R

100 µg

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human mGluR3 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 530503
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human mGluR3 Asp25-Ser507 Accession # Q14832
<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.  *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	HEK293 Human Cell Line Transfected with Human mGLUR3 and eGFP

## PREPARATION AND STORAGE

<b>Reconstitution</b>	
<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> • 12 months from date of receipt, 2 to 8 °C as supplied.

## 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.

## PRODUCT SPECIFIC NOTICES

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