

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human mGluR1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human (rh) mGluR4, rhmGluR8, rhmGluR2, rhmGluR3 and rhmGluR7 is observed.                                                       |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human mGluR1<br>Ser33-Ser522<br>Accession # Q13255                                                                                                                                                                  |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**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. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

Metabotropic glutamate receptor 1 (mGluR1) is a 130 kDa, 7-transmembrane glycoprotein that belongs to group I of the C-family of G-protein coupled receptors. On neurons, mGluR1 is postsynaptic, associates with G<sub>q</sub>-like proteins, mobilizes intracellular Ca<sup>++</sup>, and influences ion channel activity. Mature mGluR1 is 1176 amino acids (aa) in length and contains a 574 aa N-terminal extracellular domain (ECD) (aa 19-592). The ECD binds glutamate and forms either a covalent homodimer or heterodimer with CaSR. There is one alternative splice form for human mGluR1 that shows a 20 aa substitution for the C-terminal 308 amino acids. Over aa 33-522, human mGluR1 shares more than 98% aa identity with mouse, rat and canine mGluR1.

## PRODUCT SPECIFIC NOTICES

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