

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 20% cross-reactivity with recombinant human (rh) mGluR1 is observed and less than 5% cross-reactivity with rhmGluR2 and rhmGluR3
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human mGluR5 Ser19-Ser509 Accession # P41594
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

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

Human metabotropic glutamate receptor 5 (mGluR5; also mGluR5b) is a 150 kDa, 7-transmembrane glycoprotein that belongs to group I of the C-family of G-protein coupled receptors. mGluR5 is constitutively expressed and regulates neuronal ion channel activity. Human mGluR5 is 1212 amino acids (aa) in length and contains an extracellular domain (ECD) of 558 amino acids. Through its ECD, mGluR5 either homodimerizes or heterodimerizes with the Ca⁺⁺-sensor receptor. There is one alternate splice form (mGluR5a) that shows a 32 aa deletion between aa 877-908 in the cytoplasmic tail. Over aa 19-509, human mGluR5 is 98% aa identical to mouse, rat and canine mGluR5.

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