

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 10% cross-reactivity with recombinant human (rh) mGluR2, rhmGluR4, rhmGluR8 is observed, and less than 1% cross-reactivity with rhmGluR1, rhmG
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human mGluR3 Asp25-Ser507 Accession # Q14832
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

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.

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