

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human mGluR8 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human mGluR1, 2, 3, 4, 5, or 7 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 476410
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human mGluR8 Gln34-Ser514 (predicted) Accession # O00222
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

mGluR8 is a Group III metabotropic glutamate receptor. These 7-transmembrane glycoproteins are negatively coupled to adenylate cyclase and expressed presynaptically throughout the brain. mGluR8 shows pronounced expression in the dentate gyrus and CA3 regions of the hippocampus, and is thought to play a role in memory formation. Two splice forms, A and B, differ only in the C-terminal 16 amino acids (aa 893-909), while splice form C diverges at aa 454 and is truncated prior to the first transmembrane segment. Within the N-terminal extracellular region used as an immunogen (aa 34-514), human, mouse and rat mGluR8 share 98%-99% aa identity.

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