

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GluR7/GRIK3 in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1059901
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human GluR7/GRIK3 containing peptide. Accession # Q13003
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

GluR7 is a receptor for glutamate. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain. This gene can co-assemble with GRIK4 or GRIK5 to form heteromeric receptors. GluR7 is one of the five subtypes of kainate receptors. Kainate receptors are widely expressed in the CNS and are involved in the regulation of transmitter release, synapse formation, and in the pathophysiology of brain diseases. Genetic variants in the GluR7 gene are associated with schizophrenia, major depression, and bipolar disorder.

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