

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KA1/GRIK in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1060003
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human KA1/GRIK containing peptide Accession # P42263
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

GRIK4 (Glutamate receptor, ionotropic kainate 4) is a receptor for glutamate and is one of the 5 types of kainate receptor subunits. Glutamate acts as an excitatory neurotransmitter at many synapses in the CNS are key mediators of brain communication. Kainate receptors are relevant targets for neuroprotection of both neurons and glia in acute and chronic neurodegenerative diseases. They are also involved in epilepsy, pain and psychiatric disorders. Variations in GRIK4 have been associated with both increased and decreased risk of bipolar disorder. Single-nucleotide polymorphism's in GRIK 4 are also observed in Schizophrenia.

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