

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KA2/GRIK5 in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1060109
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic peptide sequence Accession # Q16478
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

GRIK5 (Glutamate receptor, ionotropic kainate 5) is a receptor for glutamate and is one of the 5 types of kainate receptor subunits. L-Glutamate acts as an excitatory neurotransmitter at many synapses in the CNS. The GRIK5 protein forms functional heteromeric kainate-preferring ionic channels with the subunits encoded by related gene family members. Kainate receptors have both presynaptic and postsynaptic actions and a limited distribution in the brain. Kainate receptors have been shown to have connections with several neurological diseases and conditions. There is linkage to schizophrenia, depression, autism, Huntington's, bipolar disorder, and epilepsy among others. KA2 is relatively abundant in all areas of the brain, most notably in dentate gyrus, pyramidal neurons of CA3, cerebellar granule cells, as well as being present in superficial and deep laminae of the neocortex.

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