

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 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.