

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GluR2/GRIA2 in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1059613
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human GluR2/GRIA2 containing peptide Accession # P42262
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.

Immunocytochemistry	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

GluR2 is a receptor for glutamate. Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain. The subunit encoded by this gene (GRIA2) is subject to RNA editing which renders the receptor it becomes part of impermeable to calcium ions. This editing occurs at the Q/R site at a frequency of 100% of GluR2 transcripts in the brain. The main function of this editing is regulation of electrophysiology of the receptor channel. Defective editing of this channel has been linked to several conditions such as ALS, Epilepsy and some human brain tumors. GRIA2 is a diagnostic immunochemical marker for solitary fibrous tumor which distinguishes it from most mimics.

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