

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat GLUD1/GLUD2 in ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 848209
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GLUD1/GLUD2 Ser54-Thr558 Accession # P49448
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.

Western Blot	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

Glutamate dehydrogenase 2 (GLUD2 or GDH2) is an approximately 58 kDa mitochondrial enzyme that catalyzes the reversible interconversion of glutamate to alpha-ketoglutarate and ammonia. This activity is important in glutamine and ammonia metabolism as well as glutamatergic signal transduction. In contrast to the widely expressed GLUD1, GLUD2 expression is restricted to testicular Sertoli and Leydig cells, brain astrocytes, and renal tubule epithelial cells. GLUD2 and GLUD1 are synthesized with N-terminal mitochondrial transit peptides. Within amino acids 58-558, human GLUD2 and GLUD1 share 97% aa sequence identity.

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