

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LGI2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 748914
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human LGI2 Gln29-Ser276 Accession # Q8N0V4
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunocytochemistry	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

LGI2 (leucine-rich, glioma-inactivated 2) is an approximately 100 kDa secreted glycoprotein in the LGI family of LRR (leucine-rich repeat) proteins. LGI2 cDNA encodes a 28 amino acid (aa) signal sequence and a 517 aa mature protein with 5 LRR domains and 7 EAR (epilepsy-associated repeat) domains. It is mainly expressed in various regions of the brain and spinal cord, but mRNA is also found in the heart and placenta. Mutation or deletion of LGI2 is associated with the temporal lobe epilepsy syndrome PEPS (partial epilepsy with pericentral spikes). Within aa 29-276, human LGI2 shares 99% aa sequence identity with mouse and rat LGI2, provided a 23 aa gap and a 32 aa insertion in mouse LGI2 at sites corresponding to human aa 139 and aa 218, respectively, are disregarded.

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