

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human LGI2 in direct ELISAs and Western blots.                                                                                                                                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 748914                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human LGI2<br>Gln29-Ser276<br>Accession # Q8N0V4                                                                                                                                                                    |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

## PRODUCT SPECIFIC NOTICES

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