
anti-LGI 1

Cat #: HM1212
Goat polyclonal IgG
0.2 µg/µ, store at 4 °C

For research use only

BACKGROUND

The leucine-rich glioma inactivated -1 gene (LGI1) is localized in a portion of chromosome 10 that exhibits high frequency of deletion in human glioma. It was identified as a candidate tumor suppressor gene. LGI1 shares homology with several transmembrane and extracellular proteins that function as receptors and adhesion proteins. It contains a hydrophobic segment representing a putative transmembrane domain with the amino terminus located outside the cell. It also contains leucine-rich repeats with conserved cysteine-rich flanking sequences. LGI1 is highly expressed in neural tissues and its expression is reduced in low grade brain tumors and significantly reduced or absent in malignant gliomas. Mutation in its gene causes autosomal-dominant partial epilepsy with auditory features.

SPECIFICITY

This antibody specifically recognizes LGI1 of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A peptide mapping at the N terminus of LGI1 of human origin.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

1. Bigner, S.H., Mark, J., Burger, P.C., Mahaley, M.S. Jr., Bullard, D.E., Muhlbaier, L.H., and Bigner, D.D. 1988. Specific chromosomal abnormalities in malignant human gliomas. *Cancer Res.* 48: 405-411.
2. Chernova, O.B., Somerville, R.P., and Cowell, J.K. 1998. A novel gene, LGI1, from 10q24 is rearranged and downregulated in malignant brain tumors. *Oncogene* 17: 2873-2881.
3. Kalachikov et al. (2002) Mutations in LGI1 cause autosomal-dominant partial epilepsy with auditory features. *Nat Genet.* 30:335-41.
4. Kunapuli, P., Chitta, K.S. and Cowell, J.K. (2003) Suppression of the cell proliferation and invasion phenotypes in glioma cells by the LGI1 gene. *Oncogene* 22, 3985-3991

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