Leucine-Rich Glioma Inactivated Gene 1 (LGI1) Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56577 (clone S283-7)
Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

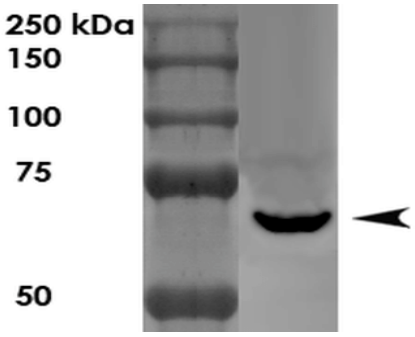
The leucine-rich glioma inactivated -1 (LGI1) gene is rearranged as a result of translocations in glioblastoma cell lines. This protein contains a hydrophobic segment representing a putative transmembrane domain with the amino terminus located outside the cell. It also contains leucine-rich repeats with conserved cysteine-rich flanking sequences. This gene is predominantly expressed in neural tissues and its expression is reduced in low grade brain tumors and significantly reduced or absent in malignant gliomas.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 37-113 of mouse LGI1. This sequence is 100% identical in rat, 98% identical in human, and ~50% identical in LGI2, LGI3, and LGI4.
Accession nos: NP_064674.1, Q9JIA1.1
Gene ID: 56839
Host Species: Mouse
Antibody Class: IgG2a
Specificity: This antibody recognizes human, mouse, and rat LGI1.

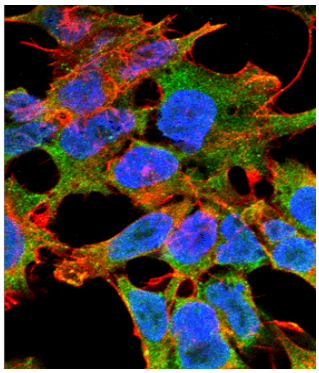
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~60kDa is detected.



Detection of LGI1 in rat brain lysate with #56577 at 1ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of LGI1 in neuroblastoma cell line SK-N-BE with #56577 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) LGI1 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

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DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20^{o}C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.

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