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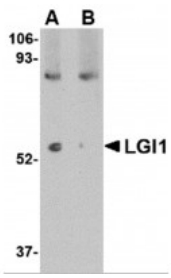
LGI1 Antibody

CATALOG NUMBER: 4531



Western blot analysis of LGI1 in mouse brain tissue lysate with LGI1 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (100%)
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	LGI1 antibody can be used for the detection of LGI1 by Western blot at 1 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1403 - Mouse Brain Tissue Lysate
IMMUNOGEN:	LGI1 antibody was raised against a 13 amino acid synthetic peptide from near the amino terminus of human LGI1. The immunogen is located within the first 50 amino acids of LGI1.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	LGI1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	LGI1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	LGI1 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	LGI1 Antibody: EPT, ETL1, ADLTE, ADPAEF, ADPEAF, IB1099, EPITEMPIN, EPT, UNQ775/PRO1569,

	Leucine-rich glioma-inactivated protein 1, Epitempin-1
ACCESSION NO.:	AAQ89244
PROTEIN GI NO.:	37182888
OFFICIAL SYMBOL:	LGI1
GENE ID:	9211

Background

BACKGROUND:	LGI1 Antibody: The leucine-rich, glioma inactivated gene 1 (LGI1) was first identified as a candidate tumor suppressor gene for glioma and may play a role in other cancers. LGI1 is a member of a family of highly related proteins containing leucine-rich repeats (LRRs) which are highly similar to other transmembrane signaling molecules and receptors. LGI1 serves as a ligand to ADAM22, a metalloprotease localized at the synapse. Mutations in LGI1 account for nearly half of autodominant lateral temporal epilepsy (ADTLE), an epileptic syndrome characterized by focal seizures with predominant auditory symptoms. Two isoforms of LGI1 are known to exist, but the top band seen in the western blot is likely to be non-specific. This LGI1 antibody is predicted to be specific to LGI1 and not recognize other LGI proteins.
REFERENCES:	1) Chernova OB, Somerville RP and Cowell JK. A novel gene, LGI1, from 10q24 is rearranged and downregulated in malignant brain tumors. Oncogene1998; 17:2873-81.
	2) Fialka F, Gruber RM, Hitt R, et al. CPA6, FMO2, LGI1, SIAT1 and TNC are differentially expressed in early- and late-stage oral squamous cell carcinoma - A pilot study. Oral Oncol.2008;
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	4) Fukata Y, Adesnik H, Iwanaga T, et al. Epilepsy-related ligand/receptor complex LGI1 and ADAM22 regulate synaptic transmission. Science2006; 313:1792-5.

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December 13, 2016