

Rabbit Lgi1/EPT/LGI1 Polyclonal Antibody | anti-LGI1 antibody

Anti-Lgi1/EPT/LGI1 Antibody

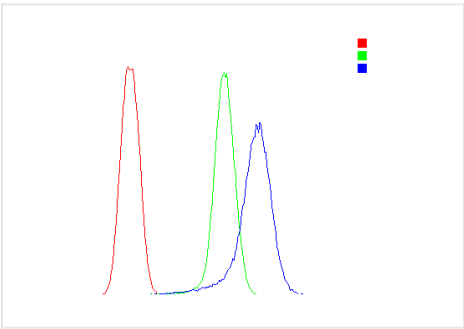
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125576	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Lgi1/EPT/LGI1; Polyclonal Antibody; Anti-Lgi1/EPT/LGI1 Antibody; LGI1; EPT; UNQ775/PRO1569; Leucine-rich glioma-inactivated protein 1; Epitempin-1; leucine rich glioma inactivated 1; anti-LGI1 antibody

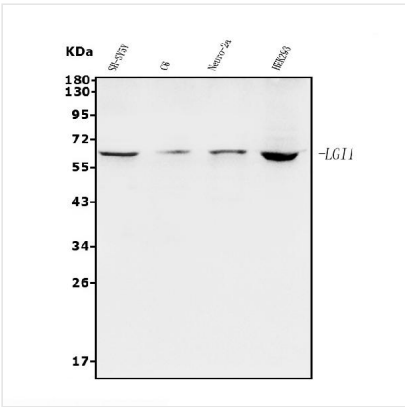
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Lgi1/EPT/LGI1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-LGI1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human Lgi1/EPT/LGI1 recombinant protein (Position: K35-A557).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U2OS cells using anti-Lgi1/EPT/LGI1 antibody (AAA125576). Overlay histogram showing U2OS cells stained with AAA125576 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Lgi1/EPT/LGI1 Antibody (AAA125576, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Lgi1/EPT/LGI1 using anti-Lgi1/EPT/LGI1 antibody (AAA125576). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates Lane 2: rat C6 whole cell lysates Lane 3: mouse Neuro-2a whole cell lysates Lane 4: human HEK293 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-Lgi1/EPT/LGI1 antigen affinity purified polyclonal antibody (Catalog # AAA125576) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Lgi1/EPT/LGI1 at approximately 64KD. The expected band size for Lgi1/EPT/LGI1 is at 64KD.

ADDITIONAL INFORMATION

Related Product Information for anti-LGI1 antibody	Leucine-rich, glioma inactivated 1, also known as LGI1, is a protein which in humans is encoded by the LGI1 gene. This gene encodes a member of the secreted leucine-rich repeat (LRR) superfamily and shares homology with members of the SLIT protein family. The encoded protein may regulate the activity of voltage-gated potassium channels and may be involved in neuronal growth regulation and cell survival. This gene is rearranged as a result of translocations in glioblastoma cell lines, and it is frequently down-regulated or rearranged in malignant gliomas. Mutations in this gene result in autosomal dominant lateral temporal epilepsy. Alternative splicing results in multiple transcript variants.
References	1. Anderson, M. P. Arrested glutamatergic synapse development in human partial epilepsy. Epilepsy Curr. 10: 153-158, 2010. 2. Bigner, S. H., Vogelstein, B. Cytogenetics and molecular genetics of malignant gliomas and medulloblastoma. Brain Path. 1: 12-18, 1990. 3. Bisulli, F., Tinuper, P., Scudellaro, E., Naldi, I., Bagattin, A., Avoni, P., Michelucci, R., Nobile, C. A de novo LGI1 mutation in sporadic partial epilepsy with auditory features. Ann. Neurol. 56: 455-456, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37182888
NCBI GeneID	9211
UniProt Accession #	O95970; Q5W001; Q5W002; Q8NI23; Q96LF5; A8K0Z1; B4E1S0
NCBI Official Full Name	LGI1
NCBI Official Synonym Full Names	leucine-rich, glioma inactivated 1
NCBI Official Symbol	LGI1
NCBI Official Synonym Symbols	EPT; ETL1; ADLTE; ADPAEF; ADPEAF; IB1099; EPITEMPIN
NCBI Protein Information	leucine-rich glioma-inactivated protein 1; epitempin-1

UniProt Protein Name	Leucine-rich glioma-inactivated protein 1
UniProt Gene Name	LGI1
UniProt Synonym Gene Names	EPT
UniProt Entry Name	LGI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/lgi1-ept-lgi1-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125576>