

LGI1 Rabbit pAb

CatalogNo: YN7988

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 61kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human LGI1

Specificity This antibody detects endogenous levels of LGI1 at Human, Mouse, Rat

| Target Information

Gene name LGI1 EPT UNQ775/PRO1569

Protein Name Leucine-rich glioma-inactivated protein 1 (Epitempin-1)

Organism	Gene ID	UniProt ID
Human	9211 ;	O95970 ;
Mouse	56839 ;	Q9JIA1 ;
Rat	252892 ;	Q8K4Y5 ;

Cellular Localization Secreted . Cell junction, synapse . Isoform 1 but not isoform 2 is secreted. Isoform 1 is enriched in the Golgi apparatus while isoform 2 accumulates in the endoplasmic reticulum.

Tissue specificity Predominantly expressed in neural tissues, especially in brain. Expression is reduced in low-grade brain tumors and significantly reduced or absent in malignant gliomas. Isoform 1 is absent in the cerebellum and is detectable in the occipital cortex and hippocampus; higher amounts are observed in the parietal and frontal cortices, putamen, and, particularly, in the temporal neocortex, where it is 3.5 times more abundant than in the hippocampus (at protein level). Isoform 3 shows the highest expression in the occipital cortex and the lowest in the hippocampus (at protein level).

Function Regulates voltage-gated potassium channels assembled from KCNA1, KCNA4 and KCNAB1. It slows down channel inactivation by precluding channel closure mediated by the KCNAB1 subunit. Ligand for ADAM22 that positively regulates synaptic transmission mediated by AMPA-type glutamate receptors (By similarity). Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway. May play a role in the control of neuroblastoma cell survival.

| Validation Data

| Contact information

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LGI1 Rabbit pAb

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