

LGI4 Rabbit pAb

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Catalog # AP58958

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8N135
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59141
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LGI4
Epitope Specificity	101-200/537
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LGI4, also known as leucine-rich glioma-inactivated protein 4, is a 537 amino acid secreted glycosylated protein that is widely expressed, with highest levels found within the nervous system. Interestingly, siRNA knockdown studies of LGI4 expression in Schwann cells have been shown to result in the inhibition of myelination, thus suggesting that LGI4 is an essential component of myelin formation and axon segregation. LGI4 shares significant homology with its other family members, LGI1, LGI2 and LGI3. Significantly, mutations in the gene encoding LGI1 have been linked to human temporal lobe epilepsy and, given the sequence similarity of LGI4, it is likely that it also may be implicated in the pathology of seizures. LGI4 is localized subcellularly to the Golgi, ER and vesicles. There are two isoforms of LGI4 that are produced as a result of alternative splicing events.

Additional Information

Gene ID	163175
Other Names	Leucine-rich repeat LGI family member 4, LGI1-like protein 3, Leucine-rich glioma-inactivated protein 4, LGI4, LGIL3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	LGI4
Synonyms	LGIL3
Function	Component of Schwann cell signaling pathway(s) that controls axon segregation and myelin formation (By similarity).
Cellular Location	Secreted.
Tissue Location	Widely expressed, with highest expression in brain.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.