

LGI2 Antibody

Catalog # ASC10664

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8K4Z0
Other Accession	Q8N0V4 , 32469737
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	63006
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LGI2 antibody can be used for the detection of LGI2 by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 5 μ g/mL.

Additional Information

Gene ID	246316
Other Names	Leucine-rich repeat LGI family member 2, Leucine-rich glioma-inactivated protein 2, Lgi2, Kiaa1916
Target/Specificity	Lgi2; This LGI2 antibody is predicted to be specific to LGI2 and not recognize other LGI proteins. Three isoforms of LGI2 are known to exist; this LGI2 antibody will recognize only the longest.
Reconstitution & Storage	LGI2 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.
Precautions	LGI2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Lgi2
Synonyms	Kiaa1916
Function	Required for the development of soma-targeting inhibitory GABAergic synapses made by parvalbumin-positive basket cells.
Cellular Location	Secreted.

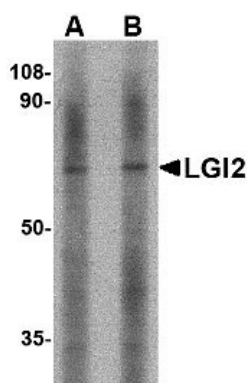
Background

LGI2 Antibody: The leucine-rich, glioma inactivated gene 2 (LGI2) is a member of the LGI family in which LGI1 is the exemplar. The LGI family consists of four of highly related proteins containing leucine-rich repeats (LRRs) which are highly similar to other transmembrane signaling molecules and receptors. LGI1 has been identified as a candidate tumor suppressor gene for glioma and plays a role in autodominate lateral temporal epilepsy (ADTLE), an epileptic syndrome characterized by focal seizures with predominant auditory symptoms. Despite its high homology with LGI1 and similar pattern of expression, mutations in LGI2 have not been found to be associated with ADTLE.

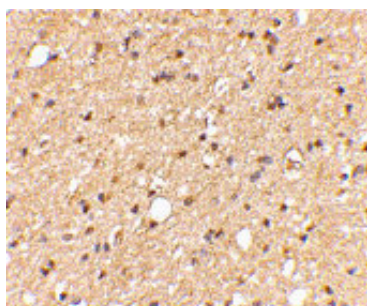
References

Gu W, Gibert Y, Wirth T, et al. Using gene-history and expression analysis to assess the involvement of LGI genes in human disorders. *Mol. Biol. Evol.*2005; 22:2209-16.
Chernova OB, Somerville RP and Cowell JK. A novel gene, LGI1, from 10q24 is rearranged and downregulated in malignant brain tumors. *Oncogene*1998; 17:2873-81.
Berkovic SF, Izzillo P, McMahon JM, et al. LGI1 mutations in temporal lobe epilepsies. *Neurology*2004; 62:1115-9.

Images

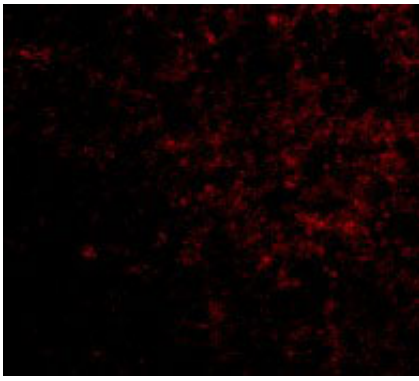


Western blot analysis of LGI2 in mouse liver tissue lysate with LGI2 antibody at (A) 1 and (B) 2 μ g/mL.



Immunohistochemical staining of human brain tissue using LGI2 antibody at 2.5 μ g/mL.

Immunofluorescence of LGI2 in Human Brain cells with LGI2 antibody at 5 μ g/mL.



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