

**LGI2 Antibody**  
**Catalog # ASC10664****Specification**

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**LGI2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q8K4Z0</a>
Other Accession	<a href="#">Q8N0V4</a> , <a href="#">32469737</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	LGI2 antibody can be used for the detection of LGI2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 5 µg/mL.

**LGI2 Antibody - Additional Information**

Gene ID **246316**

**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.

**LGI2 Antibody - 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.

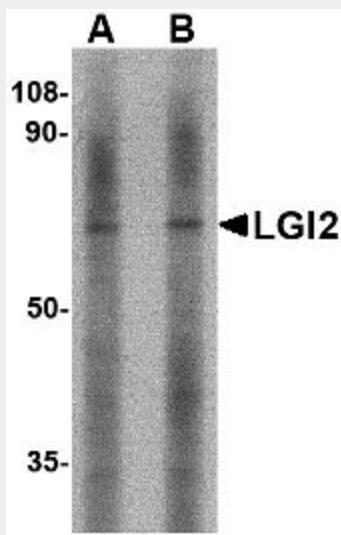
**Tissue Location**

Brain..

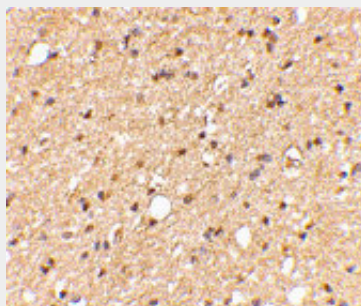
**LGI2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

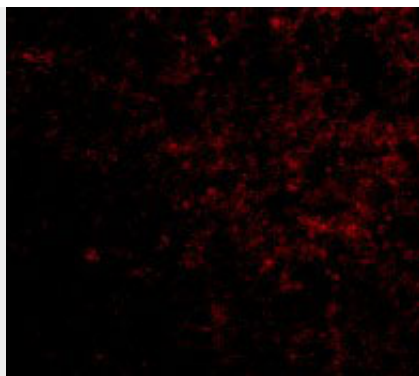
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**LGI2 Antibody - Images**

Western blot analysis of LGI2 in mouse liver tissue lysate with LGI2 antibody at (A) 1 and (B) 2  $\mu\text{g/mL}$ .



Immunohistochemical staining of human brain tissue using LGI2 antibody at 2.5  $\mu\text{g/mL}$ .



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

### **LGI2 Antibody - 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.

### **LGI2 Antibody - 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.