

LGI2 Antibody
Catalog # ASC10664**Specification**

LGI2 Antibody - Product Information

Application	WB, IHC, IF
Primary Accession	Q8K4Z0
Other Accession	Q8N0V4 , 32469737
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.

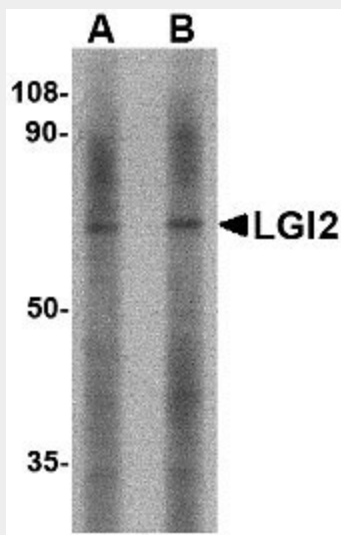
Tissue Location

Brain..

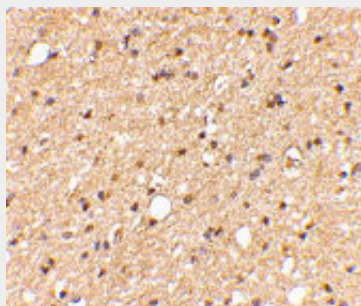
LGI2 Antibody - Protocols

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

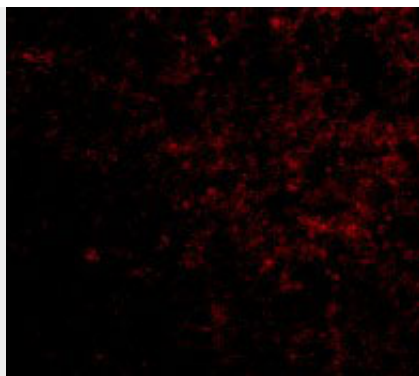
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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.