

GRID1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13651B**Specification**

GRID1 Antibody (C-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q9ULK0
Other Accession	Q62640 , Q61627 , NP_060021.1
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	112131
Antigen Region	846-875

GRID1 Antibody (C-term) - Additional Information**Gene ID** 2894**Other Names**

Glutamate receptor ionotropic, delta-1, GluD1, GluR delta-1 subunit, GRID1, KIAA1220

Target/Specificity

This GRID1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 846-875 amino acids from the C-terminal region of human GRID1.

Dilution

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GRID1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GRID1 Antibody (C-term) - Protein Information**Name** GRID1 ([HGNC:4575](#))

Synonyms KIAA1220

Function Member of the ionotropic glutamate receptor family, which plays a crucial role in synaptic organization and signal transduction in the central nervous system. Although it shares structural features with ionotropic glutamate receptors, does not bind glutamate as a primary ligand (PubMed:[38060673](#)). Instead, forms trans-synaptic adhesion complexes with presynaptic neuexins and cerebellins, regulating NMDA and AMPA receptor activity and influencing synaptic plasticity through signal transduction (By similarity). In the presence of neuexins and cerebellins, forms cation-selective channels that are proposed to be gated by glycine and D-serine (By similarity). However, recent research disputes this ligand-gated cation channel activity (PubMed:[39052831](#)). Cation-selective ion channel can be triggered by GRM1 in dopaminergic neurons (By similarity). Also acts as a receptor for GABA, modulating inhibitory synaptic plasticity through non- ionotropic mechanisms (PubMed:[38060673](#)).

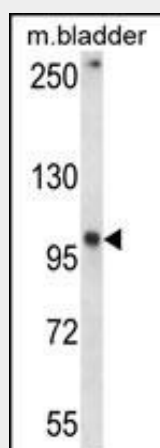
Cellular Location

Postsynaptic cell membrane; Multi-pass membrane protein

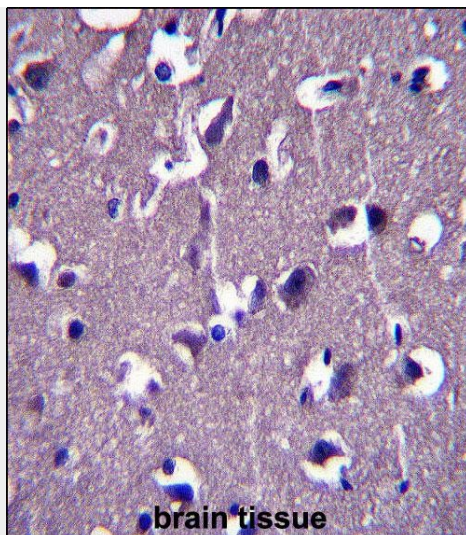
GRID1 Antibody (C-term) - Protocols

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](#)

GRID1 Antibody (C-term) - Images

GRID1 Antibody (C-term) (Cat. #AP13651b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the GRID1 antibody detected the GRID1 protein (arrow).



GRID1 Antibody (C-term) (Cat. #AP13651b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GRID1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

GRID1 Antibody (C-term) - Background

This gene encodes a subunit of glutamate receptor channels. These channels mediate most of the fast excitatory synaptic transmission in the central nervous system and play key roles in synaptic plasticity.

GRID1 Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Vasan, R.S., et al. JAMA 302(2):168-178(2009)
Treutlein, J., et al. Schizophr. Res. 111 (1-3), 123-130 (2009) :
Guo, S.Z., et al. Schizophr. Res. 93 (1-3), 385-390 (2007) :
Fallin, M.D., et al. Am. J. Hum. Genet. 77(6):918-936(2005)