

GRID1 Antibody (Internal region)
Peptide-affinity purified goat antibody
Catalog # AF3514a**Specification**

GRID1 Antibody (Internal region) - Product Information

Application	E
Primary Accession	O9ULK0
Other Accession	NP_060021.1 , 2894 , 14803 (mouse) , 79219 (rat)
Predicted Host	Human, Mouse, Rat, Pig, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	112131

GRID1 Antibody (Internal region) - Additional Information**Gene ID** 2894**Other Names**

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

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GRID1 Antibody (Internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

GRID1 Antibody (Internal region) - 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 (Internal region) - 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 (Internal region) - Images

GRID1 Antibody (Internal region) - References

Dissection of phenotype reveals possible association between schizophrenia and Glutamate Receptor Delta 1 (GRID1) gene promoter. Treutlein J, Mühleisen TW, Frank J, Mattheisen M, Herms S, Ludwig KU, Treutlein T, Schmael C, Strohmaier J, Bö?henz KV, Breuer R, Paul T, Witt SH, Schulze TG, Schlö?sser RG, Nenadic I, Sauer H, Becker T, Maier W, Cichon S, Nöthen MM, Rietschel M. Schizophrenia research 2009 Jun 111 (1-3): 123-130. PMID: 19346103