

GRID2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GRID2.

Catalog # AT2263a

Product Information

Application	WB, E
Primary Accession	O43424
Other Accession	NM_001510
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1A1
Calculated MW	113356

Additional Information

Gene ID	2895
Other Names	Glutamate receptor ionotropic, delta-2, GluD2, GluR delta-2 subunit, GRID2, GLURD2
Target/Specificity	GRID2 (NP_001501, 908 a.a. ~ 1007 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GRID2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

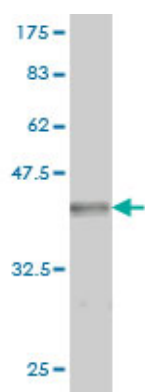
Background

Human glutamate receptor delta-2 (GRID2) is a relatively new member of the family of ionotropic glutamate receptors which are the predominant excitatory neurotransmitter receptors in the mammalian brain. GRID2 is a predicted 1,007 amino acid protein that shares 97% identity with the mouse homolog which is expressed selectively in cerebellar Purkinje cells. A point mutation in mouse GRID2, associated with the phenotype named 'lurcher', in the heterozygous state leads to ataxia resulting from selective, cell-autonomous apoptosis of cerebellar Purkinje cells during postnatal development. Mice homozygous for this mutation die shortly after birth from massive loss of mid- and hindbrain neurons during late embryogenesis. This strongly suggests a role for GRID2 in neuronal apoptotic death.

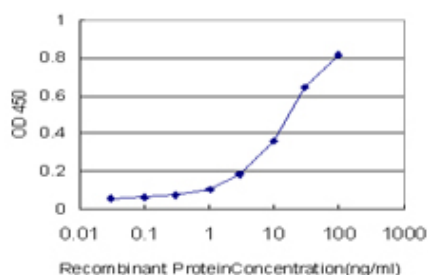
References

A whole genome association study of mother-to-child transmission of HIV in Malawi. Joubert BR, et al. *Genome Med*, 2010 Mar 1. PMID 20487506. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. *Mol Med*, 2010 Jul-Aug. PMID 20379614. Differential regulation of synaptic plasticity and cerebellar motor learning by the C-terminal PDZ-binding motif of GluRdelta2. Kakegawa W, et al. *J Neurosci*, 2008 Feb 6. PMID 18256267. Binding of glutamate receptor delta2 to its scaffold protein, Delphilin, is regulated by PKA. Sonoda T, et al. *Biochem Biophys Res Commun*, 2006 Nov 24. PMID 17027646. Adaptor protein complex-4 (AP-4) is expressed in the central nervous system neurons and interacts with glutamate receptor delta2. Yap CC, et al. *Mol Cell Neurosci*, 2003 Oct. PMID 14572453.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



Detection limit for recombinant GST tagged GRID2 is approximately 1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.