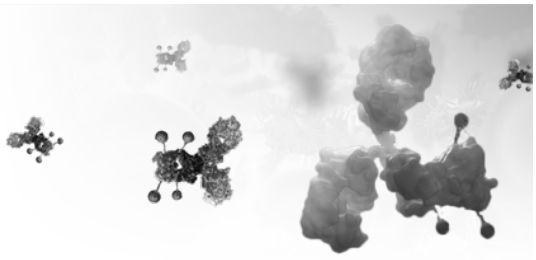

Mouse anti-Human GRID2 monoclonal antibody, clone 2B2 (CABT-B10363)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	GRID2 (NP_001501, 908 a.a. ~ 1008 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2B2
Conjugate	Unconjugated
Applications	WB,sELISA,ELISA
Sequence Similarities	DTLPTRQALEQISDFRNTHITTTTFIPEQIQTLSRTLSAKAASGFTFGNVPEHRTGPFRH RAPNGGFFRSPIKTMSSIPYQPTPTLGLNLGNDPDRGTSI*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	The protein encoded by this gene is a member of the family of ionotropic glutamate receptors which are the predominant excitatory neurotransmitter receptors in the mammalian brain. The

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	encoded protein is a multi-pass membrane protein that is expressed selectively in cerebellar Purkinje cells. A point mutation in the mouse ortholog, 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 protein also plays a role in synapse organization between parallel fibers and Purkinje cells. Alternate splicing results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause cerebellar ataxia in humans. [provided by RefSeq, Apr 2014]
Keywords	GRID2; glutamate receptor, ionotropic, delta 2; GluD2; glutamate receptor ionotropic, delta-2; gluR delta-2 subunit; glutamate receptor delta-2 subunit;

GENE INFORMATION

Entrez Gene ID	2895
UniProt ID	O43424
Pathway	Long-term depression, organism-specific biosystem; Long-term depression, conserved biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem
Function	extracellular-glutamate-gated ion channel activity; glutamate receptor activity; ion channel activity; ionotropic glutamate receptor activity; receptor activity; transporter activity

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