Datasheet for ABIN7603172

anti-GRID2 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	GRID2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRID2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-GRID2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human GRID2, identical to the related mouse and rat sequences.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GRID2 Antibody Picoband® (ABIN7603172). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GRID2
Alternative Name:	GRID2 (GRID2 Products)
Background:	Synonyms: Loricrin, LOR, LRN Tissue Specificity: Expressed in testis and to a lesser degree in brain, ovary and placenta. Found in most tissues at low levels. Background: Glutamate receptor, ionotropic, delta 2, also known as GluD2, GluRδ2, or δ2, is a protein that in humans is encoded by the GRID2 gene. 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 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.
Molecular Weight:	113 kDa
Gene ID:	2895
UniProt:	O43424
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human, Rat 1. Araki, K., Meguro, H., Kushiya, E., Takayama, C., Inoue, Y., Mishina, M. Selective expression of the glutamate receptor channel delta-2 subunit in cerebellar Purkinje cells. Biochem. Biophys. Res. Commun. 197: 1267-1276, 1993. 2. Hills, L. B., Masri, A., Konno, K., Kakegawa, W., Lam, A.-T. N., Lim-Melia, E., Chandy, N., Hill, R. S., Partlow, J. N., Al-Saffar, M., Nasir, R., Stoler, J. M., Barkovich, A. J., Watanabe, M., Yuzaki, M., Mochida, G. H. Deletions in GRID2 lead to a recessive syndrome of cerebellar ataxia and tonic upgaze in humans. Neurology 81: 1378-1386, 2013. 3. Hirai, H., Launey, T., Mikawa, S., Torashima, T., Yanagihara, D., Kasaura, T., Miyamoto, A., Yuzaki,

Application Details

	M. New role of delta-2-glutamate receptors in AMPA receptor trafficking and cerebellar function. Nature Neurosci. 6: 869-876, 2003.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.