Datasheet for ABIN6990781

anti-DISC1 antibody (AA 350-400)

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Overview

Quantity:	0.1 mg
Target:	DISC1
Binding Specificity:	AA 350-400
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DISC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	DISC1 antibody was raised against an 18 amino acid synthetic peptide from near the center of human DISC1. The immunogen is located within amino acids 350 - 400 of DISC1.
Isotype:	IgG
Specificity:	At least four isoforms of DISC1 are known to exist, this antibody will detect the three longest isoforms.
Purification:	DISC1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	DISC1
Alternative Name:	DISC1 (DISC1 Products)

Target Details

Background:	DISC1 Antibody: Disrupted in schizophrenia 1 (DISC1) is a candidate gene for susceptibility to schizophrenia. It was discovered through chromosomal analysis of a large Scottish family whose members exhibited schizophrenia and related psychiatric disorders. Through yeast two-hybrid screening, it was discovered that DISC1 interacts with many members of the centrosome and cytoskeletal system including MAP1A and Nudel. More recently, DISC1 has been found to regulate the transport of a complex containing Nudel, the lissencephaly-1 (LIS1) protein, and 14-3-3epsilon from neuronal cell bodies to the axons by the action of the microtubule-dependent directed motor protein kinesin-1, also known as KIF5A. Decreased expression of DISC1 in neurons caused an accelerated rate of neuronal integration, resulting in aberrant morphological development, suggesting that DISC1 plays a role in dendritic development and synapse formation.
Molecular Weight:	Predicted: 72, 92, 94 kDa Observed: 94 kDa
Gene ID:	27185
NCBI Accession:	NP_061132
UniProt:	Q9NRI5
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	DISC1 antibody can be used for detection of DISC1 by Western blot at 0.5 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in human samples, Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	DISC1 Antibody is supplied in PBS containing 0.02 % sodium azide.

Handling

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:	-20 °C,4 °C
Storage Comment:	DISC1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.