Datasheet for ABIN965999

anti-DISC1 antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	DISC1
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DISC1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC)

Product Details

Immunogen:	Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to N-terminal residues of human DISC1 (Disrupted in schizophrenia 1 protein)
Purification:	Purified by antigen-specific affinity chromatography.

Target Details

Target:	DISC1
Alternative Name:	DISC1 (Disrupted in schizophrenia 1 protein) (DISC1 Products)
Background:	Disrupted-In-Schizophrenia 1 (DISC1) is associated with schizophrenia by multiple genetic studies. DISC1 might cause susceptibility to schizophrenia. DISC1 has distinct interaction domains: MAP1A interacts via its LC2 domain with the N-terminus of DISC1, whereas MIPT3 and NUDEL bind via their C-terminal domains to the central coiled-coil domain of DISC1, and

Target Details

	ATF4/5 bind via their C-terminal domains to the C-terminus of DISC1. DISC1 protein localizes to predominantly perinuclear punctate structures which extend into neurites in some cells. DISC1 is a multifunctional protein whose truncation contributes to schizophrenia susceptibility by disrupting intracellular transport, neurite architecture and/or neuronal migration, all of which have been hypothesized to be pathogenic in the schizophrenic brain. DISC1 interacts with Nudel through a leucine zipper domain and binds to a novel DISC1-interaction domain on Nudel, which is independent from the Lis1 binding site. Nudel is able to act as a bridge between DISC1 and Lis1 to allow formation of a trimolecular complex. Nudel has been implicated to play a role in neuronal migration, together with the developmental variation in the abundance of the DISC1-Nudel complex, may implicate a defective DISC1-Nudel complex as a neurodevelopmental cause of schizophrenia.
Pathways:	Regulation of Cell Size

Application Details

Application Notes:	ELISA, Western blotting: 1µg/ml for 2hrs.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	This antibody is stored in PBS, 50% glycerol
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