

DISC1 Polyclonal Antibody

Catalog NumberPA5-20422

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	Western Blot (WB)	1-2 µg/mL
Immunogen	A 13 amino acid peptide from near the amino terminus of human DISC1.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is NIH-3T3 cell lysate. PA5-20422 can be used with blocking peptide PEP-0539.

Background/Target Information

DISC1 (Disrupted in Schizophrenia 1) is a multifunctional protein that interacts with multiple proteins of the centrosome and cytoskeletal system, and is involved in neuronal functions that are dependent upon proper cytoskeletal regulation, including neuronal migration, neurite architecture and intracellular transport. Regions of the brain which express DISC1 include the hippocampus, lateral septum, amygdala, cerebral cortex, cerebellum and paraventricular hypothalamus, and loss of DISC1 function results in differences in structural organization. The DISC1 gene locus is associated with patients afflicted with schizophrenia as a result of chromosomal translocations. DISC-1 encodes a large protein predicted to contain a globular N-terminal domain and a helical C-terminal domain, both of which have the potential to form interactions with other proteins. DISC-1 interacts with proteins involved in the centrosome and cytoskeletal system, including MIPT3, MAP1A and NUDEL; proteins which localize receptors to membranes, including alpha-actinin 2, beta 4-spectrin; and proteins which transduce signals from membrane receptors, including ATF-4 and ATF-5. Therefore, DISC-1 is thought to be involved in intracellular transport, neurite architecture and/or neuronal migration, all of which are thought to be pathogenic in the schizophrenic brain. 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. DISC-1 is thought to be involved in intracellular transport, neurite architecture and/or neuronal migration, all of which are thought to be pathogenic in the schizophrenic brain.

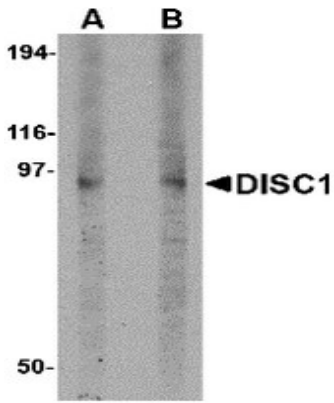
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Product Images For DISC1 Polyclonal Antibody



DISC1 Antibody (PA5-20422) in WB
Western Blot analysis of DISC1 in 3T3 cell lysate with DISC1 Polyclonal Antibody (Product # PA5-20422) at (A) 1 and (B) 2 μ g/mL.

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