

Product datasheet for **TA306459**

DISC1 Rabbit Polyclonal Antibody

Product data:

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|-----------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | IF, WB |
| Recommended Dilution: | WB: 0.5 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | DISC1 antibody was raised against a 18 amino acid peptide from near the center of human DISC1. |
| Formulation: | PBS containing 0.02% sodium azide. |
| Concentration: | 1ug/ul |
| Purification: | Affinity chromatography purified via peptide column |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | disrupted in schizophrenia 1 |
| Database Link: | NP_061132 Entrez Gene 27185 Human Q9NRI5 |



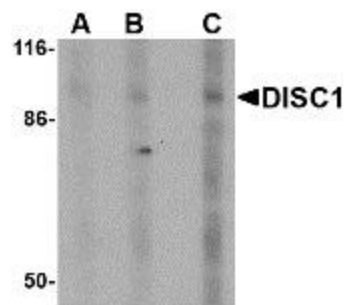
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Background:

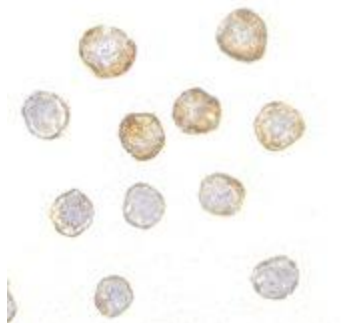
Disrupted in schizophrenia 1 (DISC1) is a candidate gene for susceptibility to schizophrenia. It was discovered through chromosomal analysis of a large Scottish family whose members exhibited schizophrenia and related psychiatric disorders. Through yeast two-hybrid screening, it was discovered that DISC1 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 14-3-3e 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. DISC1 has at least four known isoforms.

Synonyms:

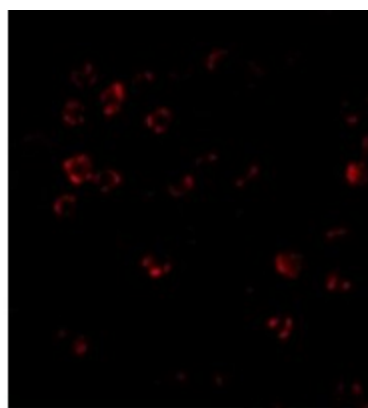
C1orf136; SCZD9

Product images:

Western blot analysis of DISC1 in SK-N-SH cell lysate with DISC1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry of DISC1 in HeLa cells with DISC1 antibody at 5 ug/mL.



Immunofluorescence of DISC1 in HeLa cells with DISC1 antibody at 20 ug/mL.