

Rabbit DISC1 Polyclonal Antibody | anti-DISC1 antibody

DISC1 Antibody

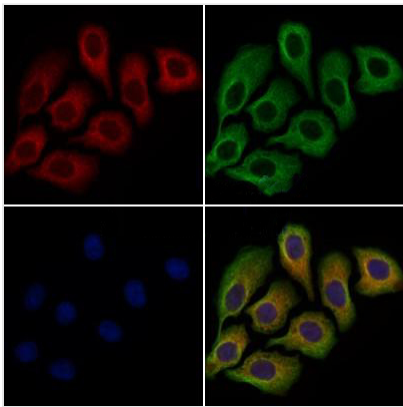
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329091	Rabbit	Human, Mouse, Rat Predicted Reactivity: Horse(88%), Rabbit(100%), Dog(86%)	ELISA

PRODUCT SYNONYMS

DISC1; Polyclonal Antibody; DISC1 Antibody; C1orf136; DISC1_HUMAN; Disrupted in schizophrenia 1; Disrupted in schizophrenia 1 protein; KIAA0457; RP4-730B13.1; SCZD9; anti-DISC1 antibody

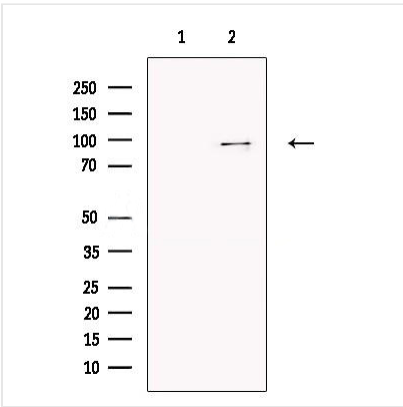
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Horse(88%), Rabbit(100%), Dog(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	DISC1 Antibody detects endogenous levels of total DISC1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	854
Applicable Applications for anti-DISC1 antibody	ELISA
Immunogen	A synthesized peptide derived from human DISC1, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA329091 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329091 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from SK-N-SH, using DISC1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DISC1 antibody

Function: Involved in the regulation of multiple aspects of embryonic and adult neurogenesis. Required for neural progenitor proliferation in the ventricular/subventricular zone during embryonic brain development and in the adult dentate gyrus of the hippocampus. Participates in the Wnt-mediated neural progenitor proliferation as a positive regulator by modulating GSK3B activity and CTNNB1 abundance. Plays a role as a modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including neuron positioning, dendritic development and synapse formation. Inhibits the activation of AKT-mTOR signaling upon interaction with CCDC88A. Regulates the migration of early-born granule cell precursors toward the dentate gyrus during the hippocampal development. Plays a role, together with PCNT, in the microtubule network formation.

Post Translational Modifications: Ubiquitinated. Ubiquitination with 'Lys-48'-linked polyubiquitin chains leads to its proteasomal degradation.

Subcellular Location: Cytoplasm. Cytoplasm>Cytoskeleton. Mitochondrion. Cytoplasm>Cytoskeleton>Microtubule organizing center>Centrosome. Cell junction>Synapse>Postsynaptic density. Note: Colocalizes with NDEL1 in the perinuclear region and the centrosome (By similarity). Localizes to punctate cytoplasmic foci which overlap in part with mitochondria (PubMed:12506198, PubMed:15797709). Colocalizes with PCNT at the centrosome (PubMed:18955030).

Tissue Specificity: Ubiquitous. Highly expressed in the dentate gyrus of the hippocampus. Also expressed in the temporal and parahippocampal cortices and cells of the white matter.

Subunit Structure: Interacts with NDEL1 (PubMed:12506198). Interacts with CCDC88A (via C-terminus); the interaction is direct. Interacts with GSK3B (By similarity). Interacts with tubulin alpha, ACTN2, ANKHD1, ATF4, ATF5, CEP63, EIF3S3, MAP1A, NDEL1, PAFAH1B1, RANBP9, SPTBN4, SYNE1 and TRAF3IP1 (PubMed:12812986). Interaction with microtubules may be mediated in part by TRAF3IP1. Interacts (via C-terminal) with PCNT (PubMed:18955030). Interacts with CHCHD6 (PubMed:22228767). Interacts with CCDC141 (By similarity). Interacts with FBXW7, the substrate-recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex; the interaction targets DISC1 for proteasomal degradation (PubMed:28727686). Interacts with ZNF365 (PubMed:17389905).

NCBI AND UNIPROT INFORMATION

NCBI GI #	160332362
NCBI GeneID	27185

UniProt Accession #	Q9NR15
Molecular Weight	Observed Molecular Weight: (Observed)93kD. Predicted Molecular Weight: (Calculated)94kDa.
NCBI Official Full Name	Disrupted in schizophrenia 1 protein
NCBI Official Synonym Full Names	DISC1 scaffold protein
NCBI Official Symbol	DISC1
NCBI Official Synonym Symbols	SCZD9; C1orf136
NCBI Protein Information	disrupted in schizophrenia 1 protein
UniProt Protein Name	Disrupted in schizophrenia 1 protein
UniProt Gene Name	DISC1
UniProt Synonym Gene Names	KIAA0457
UniProt Entry Name	DISC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/disc1-antibody-elisa/329091>