

DISC1 Polyclonal Antibody

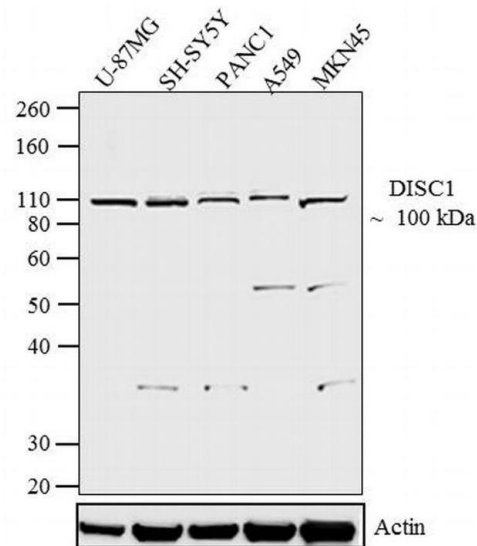
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Rat, Non-human primate, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from the C-terminal region of the mouse DISC1 (disrupted in schizophrenia 1) protein
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533476

Applications	Tested Dilution	Publications
Western Blot (WB)	1-3 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1 µg/mL	-
Immunoprecipitation (IP)	-	2 Publications

Product Images For DISC1 Polyclonal Antibody

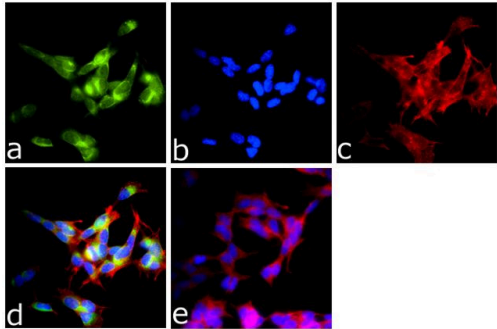
DISC1 Antibody (40-6800) in WB

Western blot analysis was performed on whole cell extracts (20 µg lysate) of U-87 MG (lane 1), SH-SY5Y (lane 2), PANC1 (lane 3), A549 (lane 4) and MKN45 (lane 5). The blots were probed with Anti-DISC1 Rabbit Polyclonal Antibody (Product # 40-6800, 1-3 µg/mL) and detected by chemiluminescence Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 100 kDa band corresponding to DISC1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



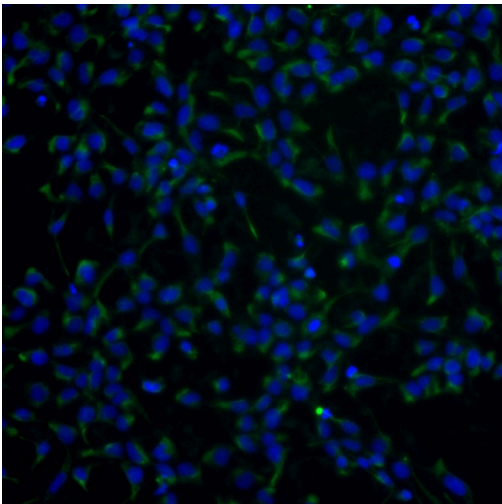
DISC1 Antibody (40-6800) in ICC/IF

Immunofluorescence analysis of DISC1 (C-TERM) was done on 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with DISC1 (C-TERM) Rabbit Polyclonal Antibody (Product # 40-6800) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing Cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



DISC1 Antibody (40-6800) in ICC/IF

Immunofluorescent analysis of DISC1 in human iPSC-derived neural stem cells cultured for 10 days in PSC Neural Induction Medium (Product # A16447801). At day 10 the cells were fixed with 4% paraformaldehyde for 15 min, permeabilized with 0.1% triton x-100 for 30 min, and blocked with 1% BSA for 30 min at room temperature. Cells were stained with anti-DISC1 (Product # 40-6800, green) at a dilution of (1:500) in 1% BSA staining buffer, overnight at 4C, and then incubated with Alexa Fluor secondary antibodies 488 donkey anti-rabbit (Product # R37118) at a dilution of 1:2000 for 60 min. at room temp. Images were taken on a Thermo Scientific CX5 CellInsight Instrument at 20X magnification.



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Western Blot (4)

<p>Nature communications</p> <p>NMDA receptors are selectively partitioned into complexes and supercomplexes during synapse maturation.</p> <p>"40-6800 was used in western blot to analyze selective partitioning into complexes and supercomplexes during synapse maturation by NMDA receptors"</p> <p>Authors: Frank RA,Komiyama NH,Ryan TJ,Zhu F,O'Dell TJ,Grant SG</p>	<p>Year</p> <p>2016</p> <p>Species</p> <p>Mouse</p>
<p>Neuropharmacology</p> <p>Synergistic interactions between PDE4B and GSK-3: DISC1 mutant mice.</p> <p>Authors: Lipina TV,Wang M,Liu F,Roder JC</p>	<p>Year</p> <p>2012</p> <p>Species</p> <p>Mouse</p>

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Immunohistochemistry (3)

<p>Cerebral cortex (New York, N.Y. : 1991)</p> <p>Knock-Down of Hippocampal DISC1 in Immune-Challenged Mice Impairs the Prefrontal-Hippocampal Coupling and the Cognitive Performance Throughout Development.</p> <p>"40-6800 was used in Immunohistochemistry to fill this knowledge gap by combining in vivo electrophysiology and optogenetics with morphological and behavioral assessment of immune-challenged mice with DISC1 knock-down either in the whole brain (GE) or restricted to pyramidal neurons in hippocampal CA1 area (GHPE)."</p> <p>Authors: Xu X,Song L,Hanganu-Opatz IL</p>	<p>Year</p> <p>2021</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:250</p>
<p>The Journal of neuroscience : the official journal of the Society for Neuroscience</p> <p>Transient Knock-Down of Prefrontal DISC1 in Immune-Challenged Mice Causes Abnormal Long-Range Coupling and Cognitive Dysfunction throughout Development.</p> <p>"40-6800 was used in Immunohistochemistry to assess to which extent impaired prefrontal development contributes to the early cognitive dysfunction."</p> <p>Authors: Xu X,Chini M,Bitzenhofer SH,Hanganu-Opatz IL</p>	<p>Year</p> <p>2019</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:250</p>

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IP (2)

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