BOSTER BIOLOGICAL TECHNOLOGY
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Anti-DISC1 Antibody Picoband®

Catalog Number: PA2023

About DISC1

DISC1 (Disrupted in Schizophrenia 1), is a protein that is encoded by the DISC1 gene in humans. Ma et al. (2002) determined that the mouse Disc1 gene maps to chromosome 8 in a region with homology of synteny to human chromosome 1q42. Ozeki et al. (2003) demonstrated that rodent Disc1 expression displayed pronounced developmental regulation, with the highest levels in late embryonic life during development of the cerebral cortex. Millar et al. (2005) showed that DISC1 interacts with the UCR2 domain of phosphodiesterase-4B, implicated in susceptibility to schizophrenia, and that elevation of cellular cAMP leads to dissociation of PDE4B from DISC1 and in increase in PDE4B activity.

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Overview

Product Name	Anti-DISC1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-DISC1 Antibody catalog # PA2023. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NRI5

Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human DISC1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

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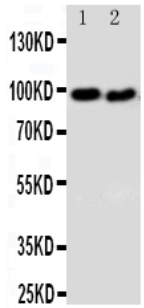
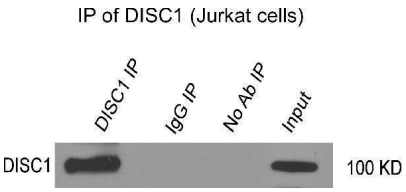
Anti-DISC1 Antibody Picoband® (PA2023) Images



Anti-DISC1 antibody, PA2023, Western blottingLane 1: U87 Cell LysateLane 2: SHG Cell Lysate



Western blot analysis of DISC1 using anti-DISC1 antibody (PA2023). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with anti-DISC1 antibody (PA2023) at 1:1000 overnight at 4°C , then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a anti-rabbit HRP secondary antibody at a dilution of 1:5000 for 1 hour at RT. The signal is developed using a chemiluminescence. A specific band was detected for DISC1 at approximately 100 kDa. The expected band size for DISC1 is at 100 kDa.

2 Publications Citing This Product

1. PubMed ID: 10.4049/jimmunol.1600180, Dynein Separately Partners with NDE1 and Dynactin To Orchestrate T Cell Focused Secretion

2. PubMed ID: 32482796, Maskalenko N,Nath S,Ramakrishnan A,Anikeeva N,Sykulev Y,Poenie M.The DISC1-Girdin complex - a missing link in signaling to the T cell cytoskeleton.J Cell Sci.2020 Jul 6;133(13):jcs242875.doi:10.1242/jcs.242875.PMID:32482796;PMCID:PMC7358132.

Visit bosterbio.com/anti-disc1-antibody-pa2023-boster.html to see all 2 publications.

Anti-DISC1 Antibody

For Research Use Only. Not for use in diagnostic procedures.