



DISC1 (Disrupted in Schizophrenia 1, RP4-730B13.1, KIAA0457, SCZD9)

Catalog number

D8066-83C

Supplier

United States Biological

The DISC1 protein is widely expressed in normal tissues. It is involved in neurite outgrowth and cortical development through its interaction with a variety of proteins including lissencephaly-1 (LIS1), NudeE-like (NUDEL) and phosphodiesterase 4B. In certain cases of schizophrenia the DISC1 gene has been found to be disrupted by a t(1;11) (q42.1;q14.3) translocation, and studies suggest that DISC1 could be a candidate susceptibility gene for this condition.

Applications

Suitable for use in Western Blot, Immunocytochemistry and Immunohistochemistry. Other applications not tested.

Recommended Dilutions

Western Blot: 1-2ug/ml detects bands of approximately 95-100kD in SK-N-SH cell lysate.

Immunocytochemistry: 5ug/ml

Immunohistochemistry: Frozen sections

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

An 18 amino acid peptide located near the center of human DISC1.

Formulation

Supplied as a liquid in PBS, pH 7.2, 0.02% sodium azide.

Purity

Purified by affinity chromatography.

Specificity

Recognizes disrupted in schizophrenia 1 (DISC1), 93kD protein located in the nucleus, cytoplasm and mitochondria. Species Crossreactivity: human and mouse

Product Type

Pab

Source

human

**Isotype**

IgG

Grade

Affinity Purified

Applications

IHC WB

Crossreactivity

Hu Mo

Storage

-20°C

Reference

1. Taya, S. et al. (2007) DISC1 regulates the transport of the NUDEL/LIS1/14-3-3eta complex through kinesin-1. J Neurosci. 27:15 - 26