


Product datasheet

Anti-Dscam antibody ab51974

1 Abreviews 2 Images

Overview

Product name	Anti-Dscam antibody
Description	Goat polyclonal to Dscam
Host species	Goat
Specificity	This antibody is expected to recognise both reported isoforms.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Dog 
Immunogen	Peptide with sequence CDSWDSAQRTKDVSPQ, from the internal region of the protein sequence (Human)
Positive control	NIH/3T3 cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab51974** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 2 - 6 µg/ml. Detects a band of approximately 170 kDa.

Target

Function

Cell adhesion molecule that plays a role in neuronal self-avoidance. Promotes repulsion between specific neuronal processes of either the same cell or the same subtype of cells. Mediates within retinal amacrine and ganglion cell subtypes both isoneuronal self-avoidance for creating an orderly dendritic arborization and heteroneuronal self-avoidance to maintain the mosaic spacing between amacrine and ganglion cell bodies. Receptor for netrin required for axon guidance independently of and in collaboration with the receptor DCC. In spinal chord development plays a role in guiding commissural axons projection and pathfinding across the ventral midline to reach the floor plate upon ligand binding. Enhances netrin-induced phosphorylation of PAK1 and FYN. Mediates intracellular signaling by stimulating the activation of MAPK8 and MAP kinase p38.

Tissue specificity

Primarily expressed in brain.

Sequence similarities

Contains 6 fibronectin type-III domains.

Contains 10 Ig-like C2-type (immunoglobulin-like) domains.

Domain

Ig-like C2-type domains 7 to 9 are sufficient for interaction with NTN1 and commissural axon outgrowth. The transmembrane domain is necessary for interaction with DCC.

Post-translational modifications

Phosphorylated at tyrosine residues. Phosphorylation is enhanced by netrin.

Cellular localization

Secreted and Cell membrane. Localized in the soma, cell membrane, axon and growth cone of dissociated commissural axons.

Images

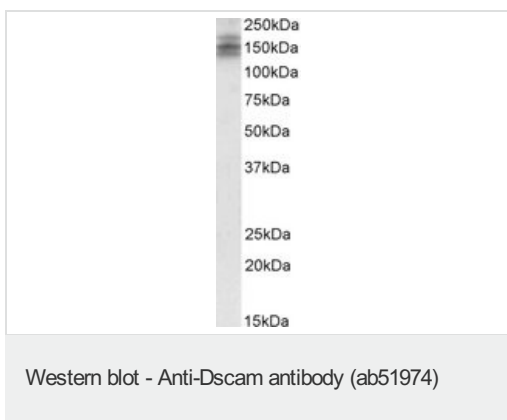


Anti-Dscam antibody (ab51974) at 1 µg/ml + NIH/3T3 cell lysate in RIPA buffer at 35 µg

Observed band size: 200 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour. Detected by chemiluminescence.



Anti-Dscam antibody (ab51974) at 2 µg/ml + Human Brain (Cerebellum) lysate in RIPA buffer at 35 µg

Observed band size: 170 kDa [why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour. Detected by chemiluminescence.

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