


# Anti-Dscam antibody ab51974

[1 Abreviews](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Dscam antibody
<b>Description</b>	Goat polyclonal to Dscam
<b>Host species</b>	Goat
<b>Specificity</b>	This antibody is expected to recognise both reported isoforms.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Dog 
<b>Immunogen</b>	Peptide with sequence CDSWDSAQRTKDVSPQ, from the internal region of the protein sequence (Human)
<b>Positive control</b>	NIH/3T3 cell lysate
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

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. A 1 hour primary incubation is recommended for this product.

## 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.

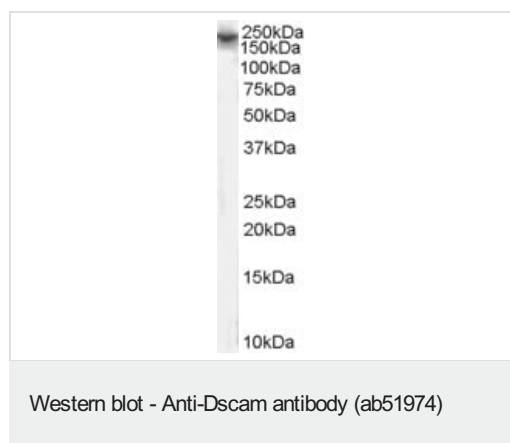
### Post-translational modifications

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.

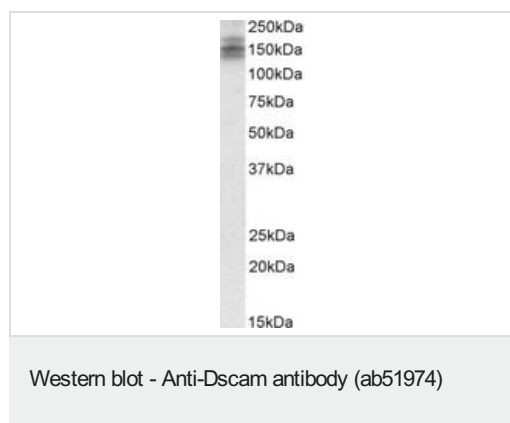
## Images



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

**Observed band size:** 200 kDa

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

Primary incubation was 1 hour. Detected by chemiluminescence.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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