

DESCRIPTION

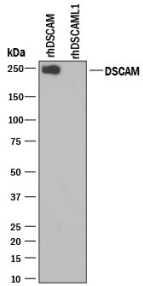
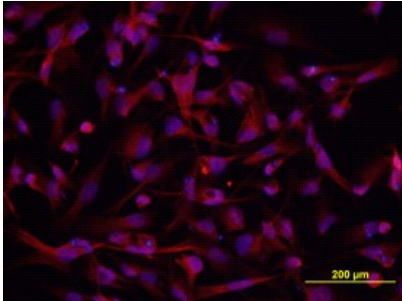
Species Reactivity	Human
Specificity	Detects human DSCAM in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human DSCAM-L1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human DSCAM long isoform Glu18-Met1595 Accession # O60469
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Recombinant Human DSCAM by Western Blot. Western blot shows 25 ng of Recombinant Human DSCAM (Catalog # 3666-DS) and Recombinant Human DSCAM-L1 (Catalog # 3315-DL). PVDF Membrane was probed with 0.1 µg/mL of Goat Anti-Human DSCAM Long Isoform Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3666) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for DSCAM at approximately 250 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.</p>	<p>Immunocytochemistry</p>  <p>DSCAM in A172 Human Cell Line. DSCAM was detected in immersion fixed A172 human glioblastoma cell line using 10 µg/mL Goat Anti-Human DSCAM Long Isoform Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3666) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human DSCAM is a member of the Ig superfamily that maps to a region in chromosome 21 associated with Down Syndrome mental retardation. It encodes a 230 kDa type I membrane protein with a large extracellular domain comprising ten C2 type Ig like domains and six fibronectin type III repeats. The intracellular domain of human DSCAM does not share significant sequence homology with *Drosophila* DSCAM. Human DSCAM is expressed in axonal and dendritic processes of the central and peripheral nervous system. It is involved in hemophilia interactions and has been implicated in neurogenesis. By alternative splicing, a soluble form of human DSCAM that is identical to the transmembrane form through residue 1571 has been described. The extracellular domain of human and mouse DSCAM share 98% amino acid sequence homology.