Anti-human DCC Antibody

ORDERING INFORMATION

Catalog Number: AF5884

Lot Number: CCQH01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

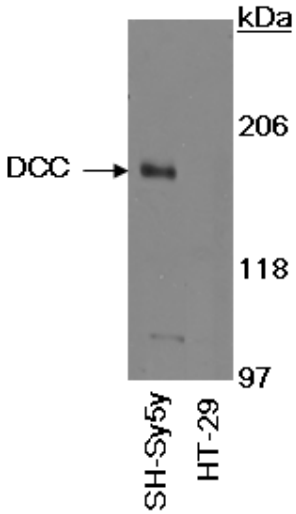
Reconstitution: sterile PBS

Specificity: human DCC

Immunogen: *E. coli*-derived rhDCC (aa 1323 - 1447)

Ig Type: sheep IgG

Applications: Western blot
Direct ELISA



Detection of DCC with AF5884.
Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL sheep anti-hDCC.

Background

Deleted in colorectal cancer (DCC) is a 170 - 190 kDa transmembrane glycoprotein that contains four Ig-like domains and six fibronectin type III repeats in its extracellular domain. DCC is expressed on axons during development where its binding to Netrin-1 regulates axon migration and myelination. It inhibits apoptosis when bound by Netrin-1 and can induce apoptosis in the absence of ligand. DCC also functions as an adhesion molecule and a tumor suppressor on intestinal epithelial cells. Deficiencies in DCC function are associated with the development and metastasis of many tumors. Within aa 1323 - 1447 of the cytoplasmic domain, human DCC shares 98% aa sequence identity with the mouse and rat DCC.

Preparation

Produced in sheep immunized with purified, *E. coli*-derived, recombinant human DCC (rhDCC; aa 1323 - 1447; Accession # P43146). Human DCC specific IgG was purified by human DCC affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human DCC in direct ELISAs and Western blots. In direct ELISAs, this antibody shows less than 1% cross-reactivity with rhICAM-1, rhICAM-2, rhICAM-3, rhMadCAM-1, rhPECAM-1, rhVCAM-1 and rhCEACAM-1.

Applications

Western blot - An antibody concentration of 1.0 µg/mL is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human DCC. The detection limit for rhDCC is approximately 0.1 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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