

## **DCC Polyclonal Antibody**

Catalog No: YT1300

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IF;ELISA

Target: DCC

**Fields:** >>Axon guidance;>>Pathways in cancer;>>Colorectal cancer

Gene Name: DCC

Protein Name: Netrin receptor DCC

Human Gene Id: 1630

**Human Swiss Prot** 

P43146

No:

Mouse Gene Id: 13176

**Mouse Swiss Prot** 

P70211

No:

Rat Gene Id: 25311

Rat Swiss Prot No: Q63155

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

DCC. AA range:441-490

**Specificity:** DCC Polyclonal Antibody detects endogenous levels of DCC protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other

applications.



**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 160kD

**Cell Pathway:** Axon guidance; Pathways in cancer; Colorectal cancer;

**Background :** This gene encodes a netrin 1 receptor. The transmembrane protein is a member

of the immunoglobulin superfamily of cell adhesion molecules, and mediates axon guidance of neuronal growth cones towards sources of netrin 1 ligand. The cytoplasmic tail interacts with the tyrosine kinases Src and focal adhesion kinase (FAK, also known as PTK2) to mediate axon attraction. The protein partially localizes to lipid rafts, and induces apoptosis in the absence of ligand. The protein functions as a tumor suppressor, and is frequently mutated or downregulated in colorectal cancer and esophageal carcinoma. [provided by RefSeq, Oct 2009],

**Function:** disease:Colorectal tumors that lost their capacity to differentiate into mucus

producing cells uniformly lack DCC expression. Inactivation of DCC due to allelic deletion and/or point mutations may cause both lymphatic and hematogenous metastasis of esophageal squamous cell carcinomas.,function:Receptor for netrin required for axon guidance. Mediates axon attraction of neuronal growth cones in the developing nervous system upon ligand binding. Its association with UNC5 proteins may trigger signaling for axon repulsion. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. Implicated as a tumor suppressor gene.,PTM:Ubiquitinated; mediated by SIAH1

or SIAH2 and leading to its subsequent proteasomal

degradation., similarity: Belongs to the immunoglobulin superfamily. DCC

family., similarity: Contains 4 Ig-like C2-type (immunoglobulin-like)

Subcellular Location:

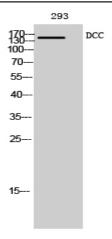
Membrane; Single-pass type I membrane protein.

**Expression:** Found in axons of the central and peripheral nervous system and in

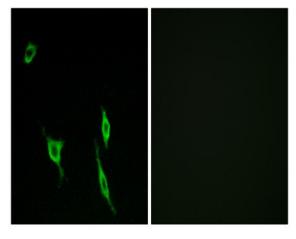
differentiated cell types of the intestine. Not expressed in colorectal tumor cells

that lost their capacity to differentiate into mucus producing cells.

## **Products Images**



Western Blot analysis of 293 cells using DCC Polyclonal Antibody diluted at 1:500



Immunofluorescence analysis of LOVO cells, using DCC Antibody. The picture on the right is blocked with the synthesized peptide.