

Rabbit anti DCC Polyclonal Antibody

Alternative Name(s): Deleted in colorectal carcinoma; CRC18; Tumor suppressor protein DCC

Order Information

- Description: DCC
- Catalogue: 601-460
- Lot: See label
- Size: 100ug/200ul
- Host: Rabbit
- Clone: nan
- Application: IHC(P), WB
- Reactivity: Hu

ANTIGEN PREPARATION

A synthetic peptide corresponding to the C-terminus (within 1380-1447aa) of Human DCC protein.

BACKGROUND

Deleted in colorectal cancer (DCC) was originally identified as a putative tumor suppressor gene that is lost in more than 70% of colorectal cancers. The gene has also been deleted in several other types of cancer. The DCC protein is a type I transmembrane glycoprotein that belongs to the immunoglobulin (Ig) superfamily. The extracellular domain is composed of four Ig-like domains and six fibronectin type III repeats. Native DCC is found in three isoforms. Two forms, a long and a short isoform, are produced from the same gene but have different initiation sites. The third isoform, produced by alternative splicing, is expressed only in embryonic tissue. Mouse DCC extracellular domain shares 97% and 99% homology with human and rat DCC extracellular domains, respectively. In adults, DCC is highly expressed in the brain but is also expressed at very low levels in multiple normal tissues. In the embyro, high levels of expression are detected in the brain and neural tube. DCC functions as a receptor or a component of a receptor for netrins and mediates the effects of netrins on commissural axons. Netrins are chemoattractants responsible for the guidance of commissural axons at the midline and of motor axons to the their target muscles. DCC induces apoptosis in the absence of ligand binding, blocks apoptosis when engaged by netrin 1, and also acts as a caspase substrate.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~160 kDa of human DCC protein. It also reacts with mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -200C to -700C. The antibodies can be stored at 20C-80C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- · Flow cytometry: Not tested
- Molecular Weight: 150-203
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.





Western Blot: The whole lysate derived from brain tissue (20 ug/lane) immunoblotted by Rabbit anti – DCC antibody (Cat# 601-460) at 1:500. Observed a major immunoreactive band at molecular weight ~180 kDa.

REFERENCES