

Anti-DCC Antibody

Catalog # ABO11214

Product Information

Application	WB, IHC-P
Primary Accession	P43146
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Netrin receptor DCC(DCC) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1630
Other Names	Netrin receptor DCC, Colorectal cancer suppressor, Immunoglobulin superfamily DCC subclass member 1, Tumor suppressor protein DCC, DCC, IGDC1
Calculated MW	158457
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	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. .
Source	Eukaryota
Protein Name	Netrin receptor DCC
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human DCC(162-178aa EVIGEPMPTIHWQKNQQ), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the immunoglobulin superfamily. DCC family.

Protein Information

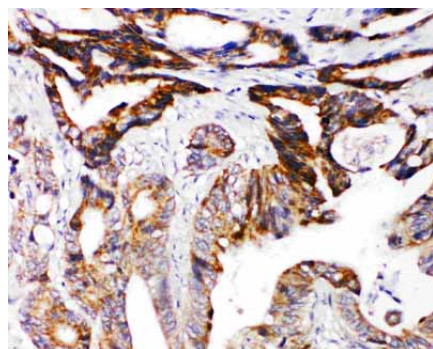
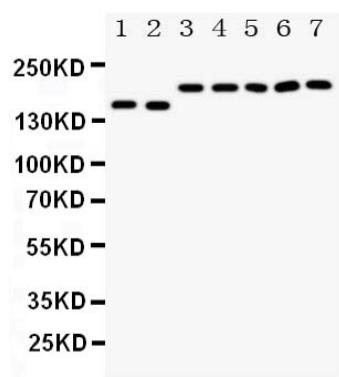
Name	DCC
Synonyms	IGDCC1
Function	Receptor for netrin required for axon guidance. Mediates axon attraction of neuronal growth cones in the developing nervous system upon ligand binding. Its association with UNC5 proteins may trigger signaling for axon repulsion. It also acts as a dependence receptor required for apoptosis induction when not associated with netrin ligand. Implicated as a tumor suppressor gene.
Cellular Location	Membrane; Single-pass type I membrane protein.
Tissue Location	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.

Background

DCC(Deleted IN Colorectal Carcinoma) also known as CRC18 or CRCR1. The DCC gene encodes a functional receptor for netrin and mediates axon outgrowth and the steering response. Heterozygous loss-of-function mutations in DCC can result in congenital mirror movements. Alterations in DCC occur frequently in colorectal cancer. Studying a YAC contig containing the entire DCC coding region, they showed that the DCC gene spans approximately 1.4 Mb. Vogelstein(1995) stated that the precise location of the DCC gene was though to be 18q21.3. DCC is a receptor or a component of a receptor that mediates the effects of netrin-1 on commissural axons, and they complement genetic evidence for interactions between DCC and netrin homologs in C. DCC protein could be detected in varying abundance in all specimens of normal colonic mucosa analyzed as well as in all specimens of adenomatous polyps, colorectal carcinoma and colorectal liver metastases. DCC may function as a tumor-suppressor protein by inducing apoptosis in settings in which ligand is unavailable(for example, during metastasis or tumor growth beyond local blood supply) through functional caspase cascades by a mechanism that requires cleavage of DCC at asp1290. Stein et al.(2001) concluded that DCC plays a central role in netrin signaling of axon growth and guidance independent of A2B receptor activation.

Images

Anti-DCC antibody, ABO11214, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Mouse Brain Tissue Lysate
Lane 3: U87 Cell Lysate
Lane 4: SW620 Cell Lysate
Lane 5: COLO320 Cell Lysate
Lane 6: 293T Cell Lysate
Lane 7: HELA Cell Lysate



Anti-DCC antibody, ABO11214, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.