

Datasheet for ABIN3030709
anti-DCC antibody (AA 162-178)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	DCC
Binding Specificity:	AA 162-178
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DCC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 162-178 (EVIGEPMPTIHWQKNQQ-human) were used as the immunogen for this DCC antibody (100% mouse homology).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	DCC
Alternative Name:	DCC (DCC Products)
Background:	Deleted in Colorectal Carcinoma is also known as CRC18 or CRCR1. The gene encodes a functional receptor for netrin and mediates axon outgrowth and the steering response. Heterozygous loss-of-function mutations in the gene can result in congenital mirror

Target Details

movements. Alterations in DCC occur frequently in colorectal cancer. Studying a YAC contig containing the entire DCC coding region, they showed that the gene spans approximately 1.4 Mb. Vogelstein(1995) stated that the precise location of the gene was thought 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. The protein can 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. It 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 it plays a central role in netrin signaling of axon growth and guidance independent of A2B receptor activation.

UniProt: [P43146](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Application Notes: The stated application concentrations are suggested starting amounts. Titration of the DCC antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

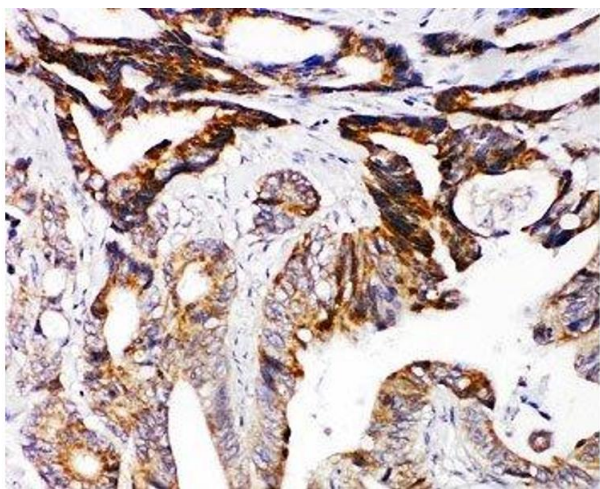
Restrictions: For Research Use only

Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

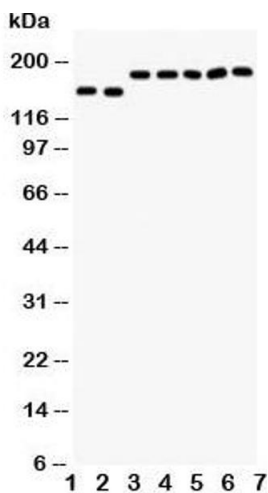
Storage: -20 °C

Storage Comment: After reconstitution, the DCC antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



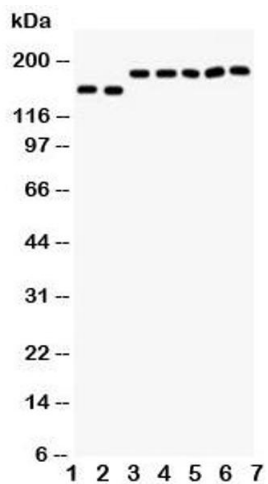
Immunohistochemistry

Image 1. IHC-P: DCC antibody testing of human intestinal cancer tissue



Western Blotting

Image 2. Western blot testing of DCC antibody and Lane 1: rat brain; 2: mouse brain; and human samples 3: U87; 4: SW620; 5: COLO320; 6: 293T; 7: HeLa cell lysate. Observed size: 155~190KD, depending on glycosylation level



Western Blotting

Image 3. Western blot testing of DCC antibody and Lane 1: rat brain