

anti-DCC

Cat #: HM1109
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

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. Loss of DCC expression was subsequently observed in cancers of breast, endometrium, brain, pancreas and prostate, as well as leukemias. 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. 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 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.

SPECIFICITY

This antibody specifically recognizes DCC of human, mouse and rat origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A synthetic peptide derived from C-terminus of human DCC protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

- Hedrick,L., Cho,K.R., Fearon,E.R., Wu,T.C., Kinzler,K.W. and Vogelstein,B. (1994) The DCC gene product in cellular differentiation and colorectal tumorigenesis. *Genes Dev.* 8, 1174-1183.
- Keino-Masu,K., Masu,M., Hinck,L., Leonardo,E.D., Chan,S.S., Culotti,J.G. and Tessier-Lavigne,M. (1996) Deleted in Colorectal Cancer (DCC) encodes a netrin receptor. *Cell* 87, 175-185.
- Mehlen,P., Rabizadeh,S., Snipas,S.J., Assa-Munt,N., Salvesen,G.S. and Bredesen,D.E. (1998) The DCC gene product induces apoptosis by a mechanism requiring receptor proteolysis. *Nature* 395, 801-804.

- Forcet,C., Ye,X., Granger,L., Corset,V., Shin,H., Bredesen,D.E. and Mehlen,P. (2001) The dependence receptor DCC (deleted in colorectal cancer) defines an alternative mechanism for caspase activation. *Proc. Natl. Acad. Sci. U.S.A.* 98, 3416-3421.
- Geisbrecht,B.V., Dowd,K.A., Barfield,R.W., Longo,P.A. and Leahy,D.J. (2003) Netrin binds discrete subdomains of DCC and UNC5 and mediates interactions between DCC and heparin. *J. Biol. Chem.* 278, 32561-32568.

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