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Datasheet for ABIN967443 anti-DCC antibody

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Overview

Quantity:	0.1 mg
Target:	DCC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DCC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Brand:	BD Pharmingen™
Immunogen:	Recombinant Human DCC
Clone:	G97-449
Isotype:	lgG1
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

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Target Details

Target:	DCC
Alternative Name:	DCC (DCC Products)
Background:	One of the most common regions of allelic loss in colorectal tumors is chromosome 18, which
	is lost in more than 70% of carcinomas, and in almost 50% of late adenomas. This region of
	loss has been mapped to chromosome 18q and a gene called Deleted in Colorectal Cancer
	(DCC). DCC encodes an ~185 kDa glycoprotein with significant homology to the neural cell
	adhesion molecule and other related cell surface glycoproteins. The predicted amino acid
	sequence of DCC cDNA consists of a 1448 amino acid (aa) long transmembrane
	phosphoprotein. The extracellular domain consists of 1098 amino acids and has 42% sequence
	homology to cell adhesion proteins of the neural cell adhesion molecule (N-CAM) family. DCC
	mRNA is found to be expressed in normal colonic mucosa, but its expression is reduced or
	absent in the majority of colorectal carcinomas. The loss of heterozygosity and subsequent
	alteration of DCC expression has also been observed in tumors of non-colorectal origin. Clone
	G97-449 recognizes human DCC. A truncated recombinant protein containing the intracellular
	domain of the human DCC was used as immunogen.
Molecular Weight:	175-190 kDa
Pathways:	Regulation of Cell Size
Application Details	
Application Notes:	Applications include western blot analysis (0.5 - 2.0 μg/ml). IMR-32 cells are suggested as a
	positive control. Other applications not routinely tested include flow cytometric analysis (titrate
	between 0.06-1.0 μ g/one million cells). The antibody has also been published for
	immunohistochemistry of formalin-fixed, paraffin-embedded tissue sections. By western blot,
	DCC-specific antibodies typically identify protein species with molecular weights of
	approximately 175-190 kDa. Doublets in this range have been reported in brain. Several smaller
	immunoreactive species, representing degradation products, cross-reactive species, or DCC
	forms arising from alternative splicing of DCC mRNA or in vivo processing of the DCC protein
	may also be identified.
Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Concentration:	0.5 mg/mL	
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Store undiluted at 4°C.	
Publications		
Product cited in:	Huang, Chu, Hwang, Tsaur: "Coexpression of high-voltage-activated ion channels Kv3.4 and	
	Cav1.2 in pioneer axons during pathfinding in the developing rat forebrain." in: The Journal of	
	comparative neurology, Vol. 520, Issue 16, pp. 3650-72, (2012) (PubMed).	
	Shibata, Reale, Lavin, Silverman, Fearon, Steele, Jessup, Loda, Summerhayes: "The DCC protein	
	and prognosis in colorectal cancer." in: The New England journal of medicine, Vol. 335, Issue	
	23, pp. 1727-32, (1996) (PubMed).	
	Reale, Hu, Zafar, Getzenberg, Levine, Fearon: "Expression and alternative splicing of the deleted	
	in colorectal cancer (DCC) gene in normal and malignant tissues." in: Cancer research, Vol. 54,	
	Issue 16, pp. 4493-501, (1994) (PubMed).	
	Fearon, Cho, Nigro, Kern, Simons, Ruppert, Hamilton, Preisinger, Thomas, Kinzler: "Identification	
	of a chromosome 18q gene that is altered in colorectal cancers." in: Science (New York, N.Y.),	
	Vol. 247, Issue 4938, pp. 49-56, (1990) (PubMed).	
	Vogelstein, Fearon, Hamilton, Kern, Preisinger, Leppert, Nakamura, White, Smits, Bos: "Genetic	
	alterations during colorectal-tumor development." in: The New England journal of medicine,	
	Vol. 319, Issue 9, pp. 525-32, (1988) (PubMed).	
	There are more publications referencing this product on: Product page	



Western Blotting

Image 1. Western blot analysis of human DCC protein in 293 human embryonic kidney cells stably transfected with an expression vector containing full length DCC cDNA. Lane 1, clone G97-449 (ABIN967443), which recognizes an epitope in the intracellular domain of DCC. Lane 2, clone G92-13 (ABIN967442), which recognizes an epitope in the extracellular domain of DCC. Lane 3, a mouse IgG1 isotype control.

Image 2.





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