Datasheet for ABIN969072

anti-CTNNB1 antibody

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Overview

Quantity:	100 µL
Target:	CTNNB1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CTNNB1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	CTNNB1 Antibody
Immunogen:	Purified recombinant fragment of human CTNNB1 expressed in E. Coli.
Clone:	4D5
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	CTNNB1
Alternative Name:	CTNNB1 (CTNNB1 Products)
Background:	The protein encoded by this gene is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by

Target Details

	regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. Finally, this protein binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. The distinct peripheral cytosolic proteins, alpha, beta and gamma catenin (102, 94 and 86 kDa) are found in many tissues and bind to the conserved cytoplasmic tail domain of the cell adhesion cadherins. Catenins link E cadherin to other integral membrane or cytoplasmic proteins and are modulated by Wnt1 proto oncogene. The central core region of beta catenin is involved in mediation of cadherin catenin complex interaction with EGFR. Beta-Catenin-mediated signalling is involved at several stages of vertebrate neural development.
Molecular Weight:	85 kDa
Gene ID:	1499
UniProt:	P35222
Pathways:	WNT Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Hormone Metabolism, Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Tube Formation, Maintenance of Protein Location, Signaling Events mediated by VEGFR1 and VEGFR2

Application Details

Application Notes:	ELISA: 1/10000 FCM: 1/200 - 1/400 ICC: 1/200 - 1/1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % 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,-20 °C

Handling

Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

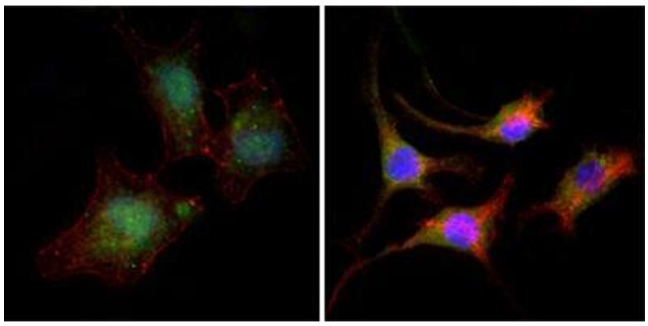
Publications

Product cited in:

Bougatef, Ouerhani, Moussa, Kourda, Coulet, Colas, Lahely, Najjar, Ben Jilani, Benammar-Elgaaied, Soubrier, Marrakchi: "Prevalence of mutations in APC, CTNNB1, and BRAF in Tunisian patients with sporadic colorectal cancer." in: **Cancer genetics and cytogenetics**, Vol. 187, Issue 1, pp. 12-8, (2008) (PubMed).

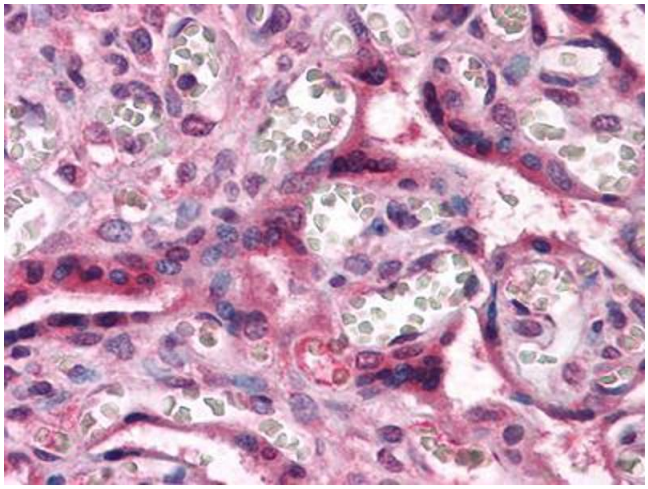
Guo, Liu, Yang, Zhang, Yao: "Relation among p130Cas, E-cadherin and beta-catenin expression, clinicopathologic significance and prognosis in human hepatocellular carcinoma." in: **Hepatobiliary & pancreatic diseases international : HBPD INT**, Vol. 7, Issue 5, pp. 490-6, (2008) (PubMed).

Images



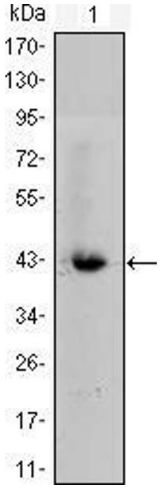
Immunofluorescence

Image 1. Immunofluorescence analysis of A549 (left) and SK-BR-3 (right) cells using CTNNB1 mouse mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.



Immunohistochemistry

Image 2. Immunohistochemical analysis of paraffin-embedded human Placenta tissues using CTNNB1 mouse mAb



Western Blotting

Image 3. Western blot analysis using CTNNB1 mouse mAb against CTNNB1-hIgGFc transfected HEK293 cell lysate.

Please check the product details page for more images. Overall 4 images are available for ABIN969072.