Datasheet for ABIN967785

anti-beta Catenin antibody (AA 571-781)

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Overview

Quantity:	150 µg
Target:	beta Catenin (CATNB)
Binding Specificity:	AA 571-781
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This beta Catenin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Mouse beta-Catenin aa. 571-781
Clone:	14-Beta
Isotype:	IgG1
Cross-Reactivity:	Human, Chicken, Dog (Canine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. 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. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	beta Catenin (CATNB)
Alternative Name:	beta-Catenin (CATNB Products)
Background:	Beta-Catenin is a 92 kDa protein that binds to the cytoplasmic tail of E-Cadherin. The cadherins, transmembrane adhesion molecules, are found with catenins at adherens junctions (zonula adherens). Deletions in the cytoplasmic domain of E-Cadherin which eliminate catenin binding also result in a loss of cell adhesion, indicating that this binding is essential for E-Cadherin function. Although the alpha- and beta-Catenins have been cloned, very little is known about their biochemical roles. However a link between beta-Catenin and colon cancer has been described. beta-Catenin was found to co-immunoprecipitate with the APC tumor suppressor protein in human colorectal tumor cell lines, as well as in human kidney 293 cells. E-Cadherin, however, was not detectable in these complexes. Thus the APC-Catenin complex may be affecting the transmission of contact inhibition signals and/or the regulation of cell adhesion.
Molecular Weight:	92 kDa
Pathways:	Peptide Hormone Metabolism

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤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:	-20 °C

Handling

Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Fallone, Britton, Nieto, Salles, Muller: "ATR controls cellular adaptation to hypoxia through positive regulation of hypoxia-inducible factor 1 (HIF-1) expression." in: **Oncogene**, Vol. 32, Issue 37, pp. 4387-96, (2013) (PubMed).

Lee, DAmour, Papkoff: "A yeast model system for functional analysis of beta-catenin signaling." in: **The Journal of cell biology**, Vol. 158, Issue 6, pp. 1067-78, (2002) (PubMed).

Persad, Troussard, McPhee, Mulholland, Dedhar: "Tumor suppressor PTEN inhibits nuclear accumulation of beta-catenin and T cell/lymphoid enhancer factor 1-mediated transcriptional activation." in: **The Journal of cell biology**, Vol. 153, Issue 6, pp. 1161-74, (2001) (PubMed).

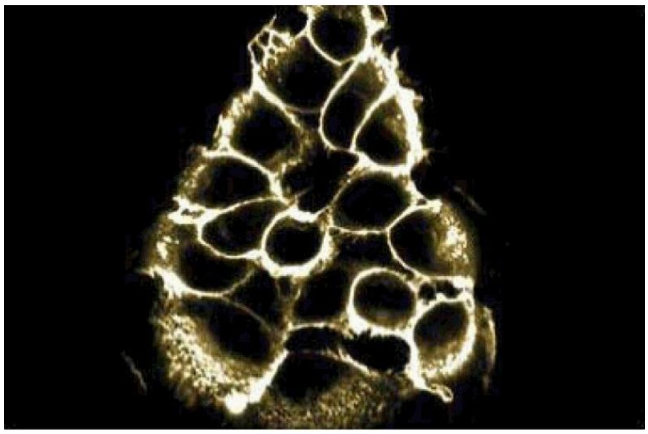
Tateishi, Omata, Tanaka, Chiba: "The NEDD8 system is essential for cell cycle progression and morphogenetic pathway in mice." in: **The Journal of cell biology**, Vol. 155, Issue 4, pp. 571-9, (2001) (PubMed).

Eger, Stockinger, Schaffhauser, Beug, Foisner: "Epithelial mesenchymal transition by c-Fos estrogen receptor activation involves nuclear translocation of beta-catenin and upregulation of beta-catenin/lymphoid enhancer binding factor-1 transcriptional activity." in: **The Journal of cell biology**, Vol. 148, Issue 1, pp. 173-88, (2000) (PubMed).

There are more publications referencing this product on: Product page

Western Blotting

Image 1. Western blot analysis of beta-Catenin on HeLa cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of beta-Catenin antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of A431 cell line with beta-Catenin antibody.

Image 3.