# ANTIBODIES ONLINE

# Datasheet for ABIN1043906 anti-beta Catenin antibody (C-Term)

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Images

2 Publications



### Overview

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Validation

Quantity:	100 µg
Target:	beta Catenin (CATNB)
Binding Specificity:	C-Term
Reactivity:	Human, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA
Product Details	
Purpose:	beta Catenin Antibody
Immunogen:	Immunogen: beta catenin antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to catenin beta-1 C-terminus.
	Immunogen Type: Conjugated Peptide
Isotype:	Immunogen Type: Conjugated Peptide
Isotype: Cross-Reactivity (Details):	
	IgG
Cross-Reactivity (Details):	IgG         beta catenin antibody is directed against catenin beta-1 protein.         Synonyms: rabbit anti-beta Catenin Antibody, rabbit anti-Catenin beta antibody, catenin beta-1,

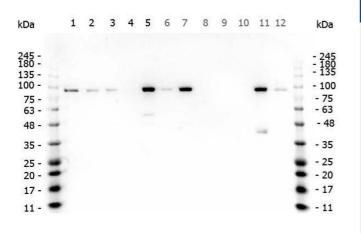
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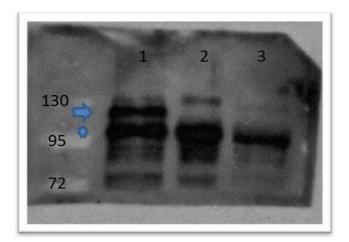
Target:	beta Catenin (CATNB)
Alternative Name:	beta Catenin (CATNB Products)
Background:	Background: Beta-catenin 1 (or ß-catenin 1) is a protein that is encoded by the CTNNB1 gene. ß
	catenin 1 is a subunit of the cadherin protein complex and has been implicated as an integral
	component in the Wnt signaling pathway. This pathway plays a key role in the regulation of
	cellular processes involved in development, differentiation, and adult tissue homeostasis. In the
	presence of Wnt ligand, ß-catenin 1 is not ubiquitinated and accumulates in the nucleus, where
	it associates with T-cell factor (TCF) family members to regulate target gene expression in
	many developmental and adult tissues. Recruitment of b-catenin 1 to Wnt response element
	(WRE) chromatin converts TCFs from transcriptional repressors to activators. ß-catenin 1 is
	also involved in the regulation of cell adhesion. It acts as a negative regulator of centrosome
	cohesion. Aberrant Wnt/ß-catenin signaling is widely implicated in cancer, bone disorders,
	kidney and intestinal cell disorders and other disease states. ß-catenin 1 is located in the
	cytoplasm when it is unstabilized or bound to CDH1. Interaction with GLIS2 and MUC1
	promotes nuclear translocation. Interaction with EMD inhibits nuclear localization. The majority
	of ß-catenin 1 is localized to the cell membrane. In interphase, colocalizes with CROCC betweer
	CEP250 puncta at the proximal end of centrioles, and this localization is dependent on CROCC
	and CEP250. In mitosis, when NEK2 activity increases, it localizes to centrosomes at spindle
	poles independent of CROCC. It further co-localizes with CDK5 in the cell-cell contacts and
	plasma membrane of undifferentiated and differentiated neuroblastoma cells.
Gene ID:	1499
NCBI Accession:	NP_001091679
UniProt:	F1QGH7
Pathways:	Peptide Hormone Metabolism
Application Details	
Application Notes:	Immunohistochemistry Dilution: 5 - 10 µg/mL
	Application Note: beta catenin antibody has been tested for use in ELISA, western blotting,
	immunohistochemistry, and ISH. Specific conditions for reactivity should be optimized by the
	end user. Expect a band approximately 85.5 kDa in size corresponding to catenin beta-1 proteir
	by western blotting in the appropriate cell lysate or extract.
	Western Blot Dilution: 1:500
	ELISA Dilution: 1:75,000 - 1:125,000

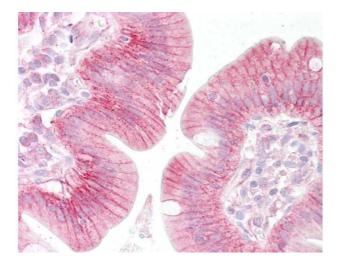
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## Application Details

	Other: ISH
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1.15 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) 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
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months
Publications	
Product cited in:	Huge, Sandbothe, Schröder, Stalke, Eilers, Schäffer, Schlegelberger, Illig, Vajen, Skawran: "Wnt status-dependent oncogenic role of BCL9 and BCL9L in hepatocellular carcinoma." in: <b>Hepatology international</b> , Vol. 14, Issue 3, pp. 373-384, (2020) (PubMed).
	Mo, Chew, Maher, Bellipanni, Weinberg, Gottardi: "The terminal region of beta-catenin promotes stability by shielding the Armadillo repeats from the axin-scaffold destruction complex." in: <b>The</b> <b>Journal of biological chemistry</b> , Vol. 284, Issue 41, pp. 28222-31, (2009) (PubMed).







#### Western Blotting

**Image 1.** Western Blot of Rabbit anti-Beta Catenin antibody. Marker: Opal Pre-stained ladder . Lane 1: HEK293 lysate . Lane 2: HeLa Lysate . Lane 3: MCF-7 Lysate . Lane 4: Jurkat Lysate . Lane 5: A431 Lysate . Lane 6: A549 Lysate . Lane 7: LNCap Lysate . Lane 8: MOLT-4 Lysate . Lane 9: Ramos Lysate . Lane 10: Raji Lsyate . Lane 11: A-172 Lysate . Lane 12: NIH/3T3 Lysate . Load: 35 µg per lane. Primary antibody: Beta catenin antibody at 1:1,000 for overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS for 30 min at RT. Predicted/Observed size: 85 kDa for Beta Catenin.

#### Western Blotting

**Image 2.** Western Blot of Rabbit anti-catenin ß-1 antibody Lane 1: zebrafish embryos injected with myc tagged catenin ß 1 mRNA Lane 2: zebrafish embryos injected with myc tagged catenin ß 2 mRNA Lane 3: zebrafish embryos uninjected Primary antibody: catenin ß-1 antibody at 1:500 overnight at 4°C Secondary antibody: goat anti-rabbit HRP at 1:10,000 for 1 hour at RT Predicted/Observed size: 85.5kDa/ ~125kDa (arrow) endogenous catenin ß-1 Other band(s): ~110kDa (star) co-migrating catenin ß-1 and ß-2.

### Immunohistochemistry

**Image 3.** Immunohistochemistry of Rabbit anti-beta Catenin antibody. Tissue: human small intestine epithelium. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: beta Catenin antibody at 5-10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Localization: Strong membranous staining in a variety of epithelial tissues. Staining: antibody as precipitated red signal with a hematoxylin purple nuclear counterstain.

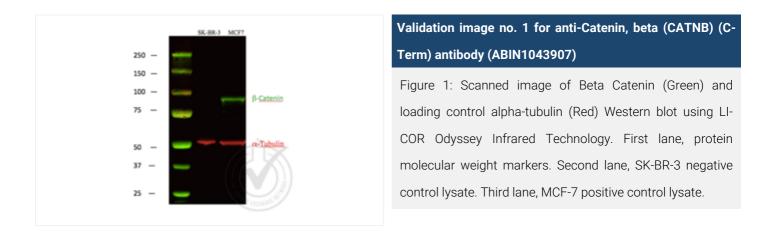
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	Successfully validated (Western Blotting (WB))
	by ADS Biosystems Inc
	Report Number: 029816
ENTER STOR	Date: Sep 18 2014
REPRODUCIBILITY INITIATIVE	
Lot Number:	27397
Method validated:	Western Blotting (WB)
Positive Control:	MCF-7 cells
Negative Control:	SK-BR-3 cells
-	A strong specific band was observed in the positive control at the expected size (~85.5 kDa)
Notes:	that is not observed in the negative control.
Primary Antibody:	- Antigen: Beta Catenin - Catalog number: ABIN1043907 - Supplier: antibodies-online - Lot
, ,	number: 27397 - Dilution: 1:1,000
Secondary Antibody:	- Antibody: IRDye 680LT Goat Anti-Rabbit - Catalogue number: 827-11081 - Supplier: LI-COR
	Biosciences - Lot number: C30725-01 - Dilution: 1:10,000
Controls:	MCF-7 lysates were prepared by ADS Biosystems following standard protocols and quality
	<ul><li>controlled for protein integrity on a regular basis</li><li>SK-BR-3 lysates were purchased from Santa Cruz Biotechnology (catalog number sc-2218)</li></ul>
Protocol:	Lysates were mixed with NuPAGE® LDS Sample Buffer (Life Technologies NP0007) and
	NuPAGE® Sample Reducing Agent (Life Technologies NP0004) and denatured for 5 minutes at 90°C.
	- 40 $\mu g$ of each lysate was electrophoresed on a Bolt 4-12% Bis-Tris Gel (Life Technologies
	BG04120BOX) and run in Bolt MOPS SDS Running Buffer (Life Technologies B0001) at 160 volts for 1 hour.
	<ul> <li>Odyssey Western Protein Standard (LI-COR #928-40000) was run as a molecular weight standard.</li> </ul>
	PVDF membrane was activated with methanol.
	Protein samples were transferred to activated PVDF membrane in a wet Bolt Transfer
	Apparatus (Life Technologies B1000) at room temperature for 1 hour at 20 volts (started at 230mA, ended at 110mA).
	<ul> <li>The membrane was blocked in x LI-COR Odyssey WB block solution for 1 hour at room temperature.</li> </ul>
	<ul> <li>The membrane was incubated with the primary antibody diluted 1:1000 in x LI-COR Odyssey</li> </ul>
	WB block solution incubated 2 hours at room temperature.

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Experimental Notes:	- No experimental challenges noted.
	control and red channel for potential LPL band.
	Proteins were detected using Odyssey machine scanning with green channel for loading
	• The membrane was washed 4 x 5 minutes in 1 x PBS-T (PBS solution with 0.1% Tween 20).
	temperature for 45 minutes.
	11081, Lot #C30725-01), both 1:10,000 dilutions. Incubation was performed at room
	(Red) and IRDye 680LT Goat Anti-Rabbit Secondary Antibody (Green) from LI-COR (#827-
	- The membrane was incubated with IRDye $^{(\! 8)}$ 800CW Goat anti-Mouse Secondary Antibody
	• The membrane was washed $4 \ge 5$ minutes in $1 \ge PBS$ -T (PBS solution with 0.1% Tween 20).

## Image for Validation report #029816



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