Datasheet for ABIN1881239

anti-CTNNB1 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	CTNNB1
Binding Specificity:	AA 78-106, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTNNB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CTNNB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 78-106 amino acids from the N-terminal region of human CTNNB1.
Clone:	RB41155
Isotype:	Ig Fraction
Predicted Reactivity:	B, Zf, M, Rat, X
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	CTNNB1

Target Details

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 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. Mutations in this gene are a cause of colorectal cancer (CRC), pilomatrixoma (PTR), medulloblastoma (MDB), and ovarian cancer. Three transcript variants encoding the same protein have been found for this gene.
Molecular Weight:	85497
NCBI Accession:	NP_001091679, NP_001091680, NP_001895
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:	IF: 1:50. IF: 1:50. WB: 1:2000. IHC-P: 1:50. FC: 1:50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (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
Expiry Date:	6 months

Publications

Product cited in:

Huang, Wang, Guo, Jia, Lin, Li, Wang, Chen: "Approaching the intrinsic electron field-emission of a graphene film consisting of quasi-freestanding graphene strips." in: **Small (Weinheim an der Bergstrasse, Germany)**, Vol. 7, Issue 4, pp. 450-4, (2011) (PubMed).

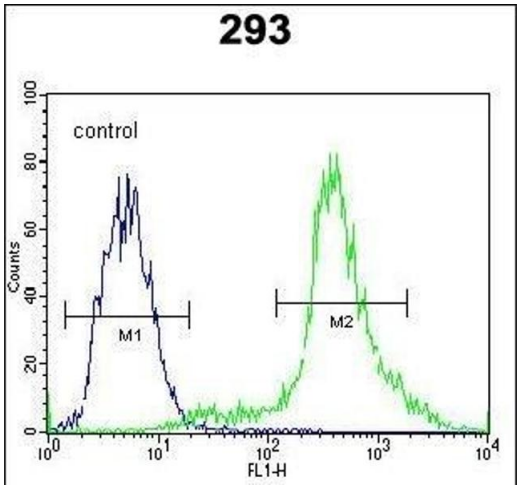
Huang, Zhou, Saberwal, Konieczna, Horvath, Katsoulidis, Platanias, Eklund: "Interferon consensus sequence binding protein (ICSBP) decreases beta-catenin activity in myeloid cells by repressing GAS2 transcription." in: **Molecular and cellular biology**, Vol. 30, Issue 19, pp. 4575-94, (2010) (PubMed).

Chairoungdua, Smith, Pochard, Hull, Caplan: "Exosome release of ?-catenin: a novel mechanism that antagonizes Wnt signaling." in: **The Journal of cell biology**, Vol. 190, Issue 6, pp. 1079-91, (2010) (PubMed).

Mirza, Sun, Zhao, Potula, Frey, Vogel, Malik, Zhao: "FoxM1 regulates re-annealing of endothelial adherens junctions through transcriptional control of beta-catenin expression." in: **The Journal of experimental medicine**, Vol. 207, Issue 8, pp. 1675-85, (2010) (PubMed).

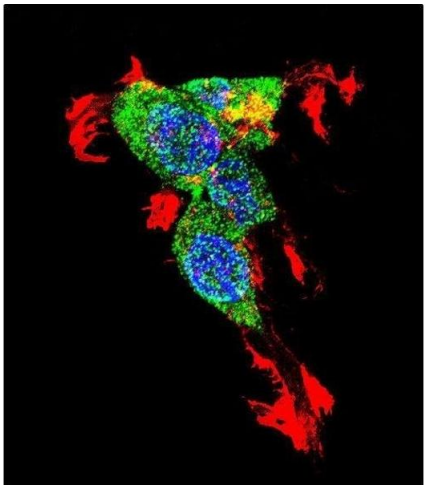
Teng, Wang, Wang, Wang: "[Effect of siRNA-mediated beta-catenin gene on Wnt signal pathway in lung adenocarcinoma A549 cell]." in: **Zhonghua yi xue za zhi**, Vol. 90, Issue 14, pp. 988-92, (2010) (PubMed).

Images



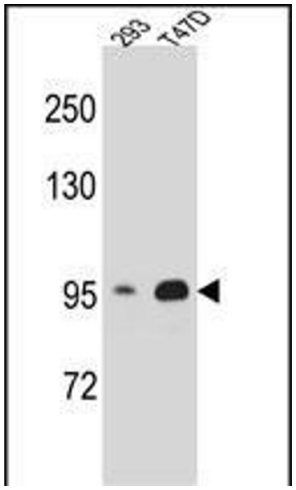
Flow Cytometry

Image 1. CTNNB1 Antibody (N-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).Alexa Fluor 488-conjugated donkey anti-rabbit IgG secondary antibodies were used for the analysis.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of CTNNB1 Antibody (N-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. CTNNB1 Antibody (N-term) A western blot analysis in 293,T47D cell line lysates (35 µg/lane).This demonstrates the CTNNB1 antibody detected the CTNNB1 protein (arrow).

Please check the product details page for more images. Overall 5 images are available for ABIN1881239.