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Product datasheet for TA330025

beta Catenin (CTNNB1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB, CHIP
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CTNNB1 antibody: synthetic peptide directed towards the middle region of human CTNNB1. Synthetic peptide located within the following region: RTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDP
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. *Note that this product is shipped as lyophilized powder to China customers.*
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85 kDa
Gene Name:	catenin beta 1
Database Link:	NP_001895 Entrez Gene 1499 Human P35222

View online »

Background: Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete.Beta-catenin is an adherens junction protein. Adherens junctions (AJs; also called the zonula adherens) are critical for the establishment and maintenance of epithelial layers, such as those lining organ surfaces. AJs mediate adhesion between cells, communicate a signal that neighboring cells are present, and anchor the actin cytoskeleton. In serving these roles, AJs regulate normal cell growth and behavior. At several stages of embryogenesis, wound healing, and tumor cell metastasis, cells form and leave epithelia. This process, which involves the disruption and reestablishment of epithelial cell-cell contacts, may be regulated by the disassembly and assembly of AJs. AJs may also function in the transmission of the 'contact inhibition' signal, which instructs cells to stop dividing once an epithelial sheet is complete. [supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-54 DA216720.1 1-54 55-2626 X87838.1 1-2572 2627-3720 AC104307.2 83770-84863

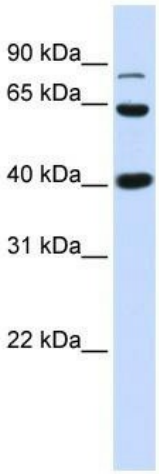
Synonyms: armadillo; CTNNB; MRD19

Note: Immunogen sequence homology: Dog: 100%; Guinea pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 100%; Zebrafish: 100%; African clawed frog: 92%; Chicken: 92%

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

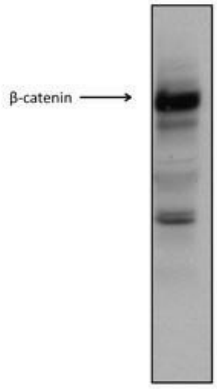
Protein Pathways: Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Focal adhesion, Leukocyte transendothelial migration, Melanogenesis, Pathogenic Escherichia coli infection, Pathways in cancer, Prostate cancer, Thyroid cancer, Tight junction, Wnt signaling pathway

Product images:



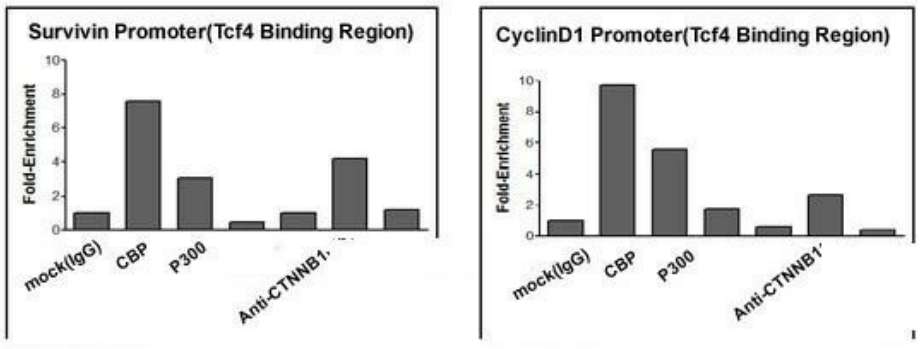
WB Suggested Anti-CTNNB1 Antibody Titration: 0.2-1 ug/mlELISA Titer: 1:62500Positive Control: Fetal Heart

Detection of β-catenin Protein Levels in Whole Cell Lysate of HCT116 Human Colon Carcinoma By Western Blot



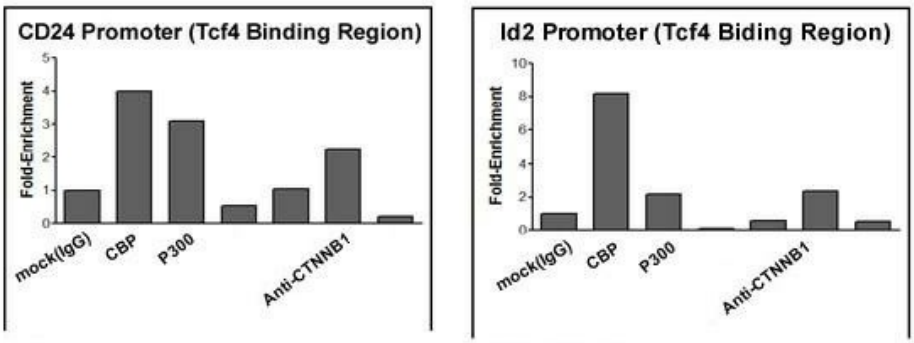
CTNNB1 antibody - middle region validated by WB using HCT116 cell lysateCTNNB1 is supported by BioGPS gene expression data to be expressed in HCT116

ChIP Analysis of Four Wnt-regulated Promoters in HCT116 Human Colon Carcinoma



CTNNB1 antibody - middle region validated by CHIP using HCT116 cell lysate

ChIP Analysis of Four Wnt-regulated Promoters in HCT116 Human Colon Carcinoma



CTNNB1 antibody - middle region validated by CHIP using HCT116 cell lysate