

Rabbit anti-Human beta-Catenin Polyclonal Antibody | anti-CTNNB1 antibody

Anti-beta-Catenin Antibody, Rabbit Polyclonal

CATALOG # AAA255386	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
-------------------------------	-----------------------	----------------------------	--

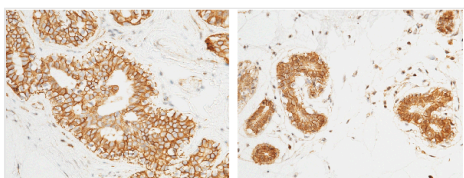
PRODUCT SYNONYMS

beta-Catenin; Polyclonal Antibody; Anti-beta-Catenin Antibody; Rabbit Polyclonal; beta-Catenin/CTNNB1 Antibody; Rabbit PAb; Antigen Affinity Purified; catenin beta 1; Anti-armadillo Antibody; Anti-CTNNB Antibody; Anti-MRD19 Antibody; anti-CTNNB1 antibody

PRODUCT SPECIFICATIONS

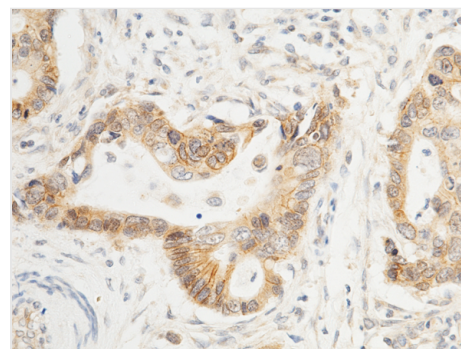
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human beta-Catenin/CTNNB1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CTNNB1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human beta-Catenin/CTNNB1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human beta-Catenin/CTNNB1 (rh beta-Catenin/CTNNB1). beta-Catenin/CTNNB1 specific IgG was purified by Human beta-Catenin/CTNNB1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



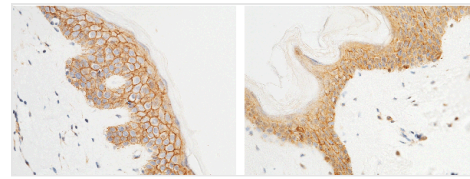
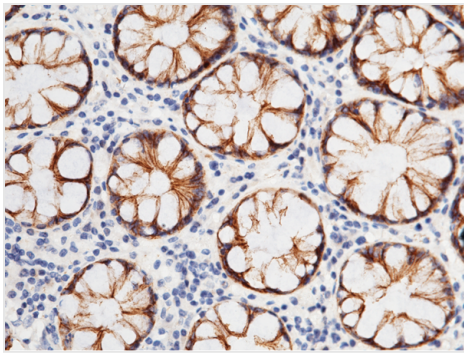
IHC (Immunohistochemistry)

Immunochemical staining of human CTNNB1 in human breast cancer (from 2 donors) with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium.



IHC (Immunohistochemistry)

Immunochemical staining of human CTNNB1 in human colon cancer with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to colonic gland.



IHC (Immunohistochemistry)

Immunochemical staining of human CTNNB1 in human skin (from 2 donors) with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium.

IHC (Immunohistochemistry)

Immunochemical staining of human CTNNB1 in human colon with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to colonic gland.

ADDITIONAL INFORMATION

Related Product Information for anti-CTNNB1 antibody

beta-Catenin, also known as CTNNB1, is a member of the armadillo family of proteins. These proteins have multiple copies of the so-called armadillo repeat domain, which is specialized for protein-protein binding. It 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. CTNNB1 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, beta-Catenin binds to the product of the APC gene, which is mutated in adenomatous polyposis of the colon. Defects in beta-Catenin can cause colorectal cancer, pilomatixoma (PTR), medulloblastoma, and ovarian cancer. CTNNB1 is a key downstream component of the canonical Wnt signaling pathway. In the absence of Wnt, it forms a complex with AXIN1, AXIN2, APC, CSNK1A1 and GSK3B that promotes phosphorylation on N-terminal Ser and Thr residues and ubiquitination of CTNNB1 via BTRC and its subsequent degradation by the proteasome. In the presence of Wnt ligand, beta-Catenin is not ubiquitinated and accumulates in the nucleus, where it acts as a coactivator for transcription factors of the TCF/LEF family, leading to activate Wnt responsive genes. CTNNB1 is involved in the regulation of cell adhesion. The majority of beta-catenin is localized to the cell membrane and is part of E-cadherin/catenin adhesion complexes which are proposed to couple cadherins to the actin cytoskeleton.

Product Categories/Family for anti-CTNNB1 antibody

[Canonical Wnt Pathway](#)

References

Yang, et al. (2002) Linking beta-catenin to androgen-signaling pathway. J Biol Chem. 277(13):11336-44. Hino S, et al. (2005) Phosphorylation of beta-Catenin by Cyclic AMP-Dependent Protein Kinase Stabilizes beta-Catenin through Inhibition of Its Ubiquitination. Mol Cell Biol. 25(20):9063-72. Liu X, et al. (2005) Rapid, Wnt-induced changes in GSK3beta associations that regulate beta-catenin stabilization are mediated by Galpha proteins. Curr Biol. 15(22):1989-97. Kraus C, et al. (1994) Localization of the human beta-catenin gene (CTNNB1) to 3p21: a region implicated in tumor development. Genomics. 23(1):272-4.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148233338
NCBI GeneID	1499
NCBI Accession #	NP_001091679.1
NCBI GenBank Nucleotide #	NM_001098209.1
UniProt Accession #	P35222 ; Q8NEW9 ; Q8NI94 ; Q9H391 ; A8K1L7
Molecular Weight	85,497 Da
NCBI Official Full Name	catenin beta-1
NCBI Official Synonym Full Names	catenin (cadherin-associated protein), beta 1, 88kDa
NCBI Official Symbol	CTNNB1

NCBI Official Synonym Symbols	CTNNB; MRD19; armadillo
NCBI Protein Information	catenin beta-1
UniProt Protein Name	Catenin beta-1
UniProt Gene Name	CTNNB1
UniProt Synonym Gene Names	CTNNB
UniProt Entry Name	CTNB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/beta-catenin-antibody-immunohistochemistry-elisa/255386>