

Rabbit b-Catenin (Tyr-142) Polyclonal Antibody | anti-ctnnb1 antibody

Anti-beta-Catenin (Tyr-142), phospho-specific [gamma-Catenin (Tyr-133)]

CATALOG # AAA71511	HOST Rabbit	REACTIVITY Human, Rat, Mouse	APPLICATIONS Western Blot, ELISA
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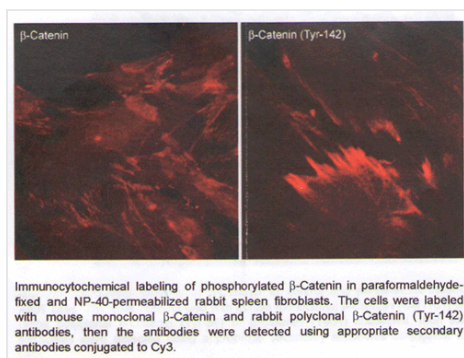
PRODUCT SYNONYMS

b-Catenin (Tyr-142); Polyclonal Antibody; Anti-beta-Catenin (Tyr-142); phospho-specific [gamma-Catenin (Tyr-133)]; phospho-specific; Catenin beta; anti-ctnnb1 antibody

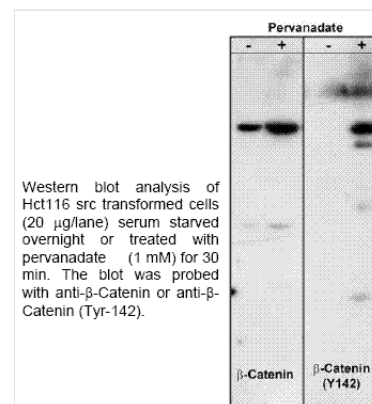
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was cross-adsorbed to phospho-tyrosine coupled to agarose before affinity purification using phospho- beta -Catenin (Tyr-142) peptide (without carrier). The antibody detects a 92kDa* protein corresponding to the molecular mass of beta -Catenin on SDS-PAGE immunoblots of Hct116 src transformed cells treated with pervanadate, but not in control cells. Similar results were observed in other pervanadate-treated cell lines, such as A431 and human endothelial cells.
Purity/Purification	Affinity Purified
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-ctnnb1 antibody	WB (Western Blot), ELISA
Immunogen	Phospho-beta-Catenin (Tyr-142) synthetic peptide (coupled to KLH) corresponding to amino acid residues around tyrosine 142 of human beta-Catenin. This peptide sequence has one amino acid difference from a sequence around tyrosine 133 of human gamma-Catenin. These human sequences are highly conserved in rat and mouse beta-Catenins.
Preparation and Storage	Store at -20 degree C. Do not aliquot. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-ctnnb1 antibody	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. Deletions in the cytoplasmic domain of ECadherin eliminate catenin binding and result in a loss of cell adhesion. Tyrosine phosphorylation of beta-Catenin can regulate its interaction with critical components of adherens junctions. Both Fer and Fyn kinases phosphorylate tyrosine 142 in vitro. Overexpression of these kinases in epithelial cells disrupts interactions between alpha and beta-Catenins. The phosphorylation of tyrosine 142 may act as a switch from the transcriptional to the adhesive role of beta-Catenin. Src family kinases can also phosphorylate tyrosine 654 in the C terminal armadillo repeat of beta-Catenin. This phosphorylation regulates beta-Catenin binding to E cadherin. Thus, sitespecific tyrosine phosphorylation of beta-Catenin may regulate specific protein-protein interactions leading to changes in cell adhesion.
References	• Brembeck, F.H. et al. (2004) Genes Dev. 18(18):2225-2230. • Ozawa, M. et al. (1990) Proc. Natl. Acad. Sci. USA 87:4246. • Piedra, J. et al. (2003) Mol. Cell. Biol. 23(7):2287-2297.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1125100
NCBI GeneID	30265
UniProt Accession #	Q7ZU14; Q90424
Molecular Weight	85,520 Da
NCBI Official Full Name	b-catenin
NCBI Official Synonym Full Names	catenin (cadherin-associated protein), beta 1
NCBI Official Symbol	ctnnb1
NCBI Official Synonym Symbols	ctnnb; id:ibd2058; wu:fb73e10; wu:fi81c06; wu:fk25h01
NCBI Protein Information	catenin beta-1; beta-catenin
UniProt Protein Name	Catenin (Cadherin-associated protein), beta 1
UniProt Gene Name	ctnnb1
UniProt Entry Name	Q7ZU14_DANRE

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/b-catenin-tyr-142-antibody-western-blot-elisa/71511>