

Anti- β -Catenin (N-terminal) Antibody
Catalog # AN1675**Specification****Anti- β -Catenin (N-terminal) Antibody - Product Information**

Application	WB, IHC
Primary Accession	P35222
Reactivity	Bovine
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	85497

Anti- β -Catenin (N-terminal) Antibody - Additional InformationGene ID **1499****Other Names**

Catenin beta1, CTNNB1, catenin

Target/Specificity

β -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 E-Cadherin eliminate catenin binding and result in a loss of cell adhesion. Tyrosine phosphorylation of β -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 α - and β -Catenins. The phosphorylation of tyrosine 142 may act as a switch from the transcriptional to the adhesive role of β -Catenin. Src family kinases can also phosphorylate tyrosine 86 and 654 in β -Catenin. The Tyr-654 phosphorylation regulates β -Catenin binding to E-cadherin. Thus, site-specific tyrosine phosphorylation of β -Catenin may regulate protein-protein interactions leading to changes in cell adhesion.

Dilution

WB~~1:1000

IHC~~1:100~500

Format

Antigen Affinity Purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti- β -Catenin (N-terminal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

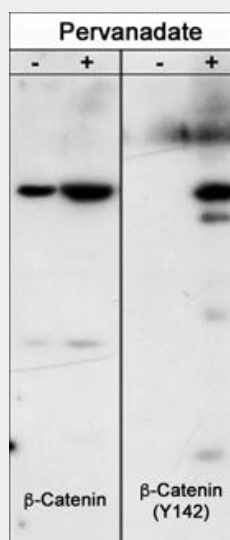
Blue Ice

Anti- β -Catenin (N-terminal) Antibody - Protocols

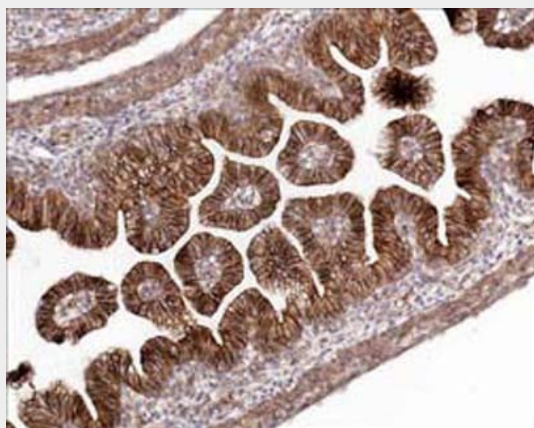
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti- β -Catenin (N-terminal) Antibody - Images



Western blot analysis of Hct116 src transformed cells (20 μ g/lane) serum starved overnight or treated with pervanadate (1 mM) for 30 min. The blot was probed with anti- β -Catenin or anti- β -Catenin (Tyr-142)



Formalin fixed, citric acid treated paraffin sections of embryonic Rat E16 intestines. Sections were probed with anti- β -Catenin (CP1061) then anti-Rabbit:HRP before detection using DAB. (Images provided by Carl Hobbs and Dr. Pat Doherty at Wolfson Centre for Age-Related Diseases, King's College London).

Anti- β -Catenin (N-terminal) Antibody - Background

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