


Product datasheet

Anti-gamma Catenin antibody ab15153

★★★★★ [1 Abreviews](#) [6 References](#) [3 Images](#)

Overview

Product name	Anti-gamma Catenin antibody
Description	Rabbit polyclonal to gamma Catenin
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide within Human gamma Catenin aa 700 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P14923
Positive control	Breast carcinoma
General notes	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab15153 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 µg/ml.

Target

Function

Common junctional plaque protein. The membrane-associated plaques are architectural elements in an important strategic position to influence the arrangement and function of both the cytoskeleton and the cells within the tissue. The presence of plakoglobin in both the desmosomes and in the intermediate junctions suggests that it plays a central role in the structure and function of submembranous plaques. Acts as a substrate for VE-PTP and is required by it to stimulate VE-cadherin function in endothelial cells. Can replace beta-catenin in E-cadherin/catenin adhesion complexes which are proposed to couple cadherins to the actin cytoskeleton.

Involvement in disease

Defects in JUP are the cause of Naxos disease (NXD) [MIM:601214]. NXD is an autosomal recessive disorder combining diffuse non-epidermolytic palmoplantar keratoderma with arrhythmogenic right ventricular dysplasia/cardiomyopathy and woolly hair.

Defects in JUP are the cause of familial arrhythmogenic right ventricular dysplasia type 12 (ARVD12) [MIM:611528]; also called arrhythmogenic right ventricular cardiomyopathy 12 (ARVC12). ARVD is an autosomal dominant disease characterized by partial degeneration of the myocardium of the right ventricle, electrical instability, and sudden death. It is clinically defined by electrocardiographic and angiographic criteria; pathologic findings, replacement of ventricular myocardium with fatty and fibrous elements, preferentially involve the right ventricular free wall.

Sequence similarities

Belongs to the beta-catenin family.

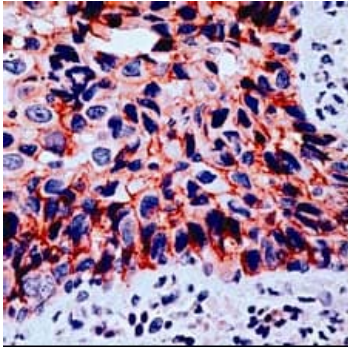
Contains 9 ARM repeats.

Cellular localization

Cell junction > adherens junction. Cell junction > desmosome. Cytoplasm > cytoskeleton.

Membrane. Cytoplasmic in a soluble and membrane-associated form.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Catenin antibody (ab15153)

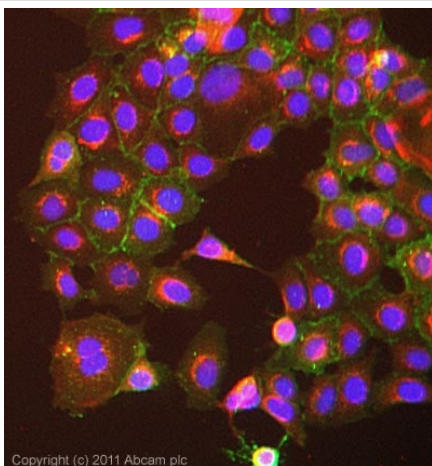
Human breast carcinoma stained with anti gamma catenin antibody ab15153 (1/100 for 10 min at RT). Gamma catenin staining is seen on the cell membrane and in the cytoplasm.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-gamma Catenin antibody (ab15153)

This image is courtesy of an anonymous Abreview

ab15153 staining gamma Catenin in normal human skin tissue sections by IHC-P (formaldehyde-fixed paraffin-embedded sections). Tissue samples were fixed with formaldehyde and blocked with 10% serum for 1 hour at 2°C; antigen retrieval was by heat mediation in EDTA (pH9). The sample was incubated with primary antibody (1/100 in TBS + 1% BSA) at 21°C for 1 hour. An undiluted HRP-conjugated Goat polyclonal to mouse IgG was used as secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-gamma Catenin antibody (ab15153)

ICC/IF image of ab15153 stained MCF7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab15153, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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