

### Catenin-y Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50192

### **Specification**

## Catenin-y Antibody - Product Information

Application WB, IHC
Primary Accession P14923
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 82 KDa
Antigen Region 717-745

# Catenin-y Antibody - Additional Information

**Gene ID 3728** 

#### **Other Names**

Junction plakoglobin, Catenin gamma, Desmoplakin III, Desmoplakin-3, JUP, CTNNG, DP3

### **Dilution**

WB~~ 1:1000 IHC~~1:50-1:100

#### **Format**

Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

### **Storage Conditions**

-20°C

#### Catenin-y Antibody - Protein Information

## Name JUP (HGNC:6207)

## **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 (By similarity).

### **Cellular Location**

Cell junction, adherens junction. Cell junction, desmosome. Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein. Cytoplasm {ECO:0000250|UniProtKB:Q9PVF7}. Cell



junction {ECO:0000250|UniProtKB:Q9PVF7}. Nucleus {ECO:0000250|UniProtKB:Q9PVF7} Note=Cytoplasmic in a soluble and membrane-associated form. Colocalizes with DSG4 at desmosomes (PubMed:21495994)

**Tissue Location** 

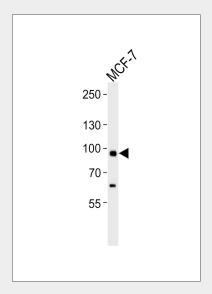
Expressed in the heart (at protein level).

## Catenin-y Antibody - Protocols

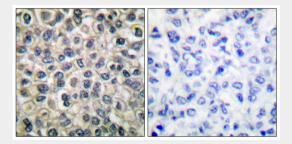
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# Catenin-y Antibody - Images



Western blot analysis of lysate from MCF-7 cell line, using Catenin- $\gamma$  Antibody(C0138). C0138 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Catenin-y antibody.



## Catenin-y Antibody - Background

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## Catenin-y Antibody - References

Franke W.W.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:4027-4031(1989). Zimbelmann R.,et al.Submitted (DEC-1995) to the EMBL/GenBank/DDBJ databases. Whittock N.V.,et al.Exp. Dermatol. 9:323-326(2000). Liang X.-J.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases. Zody M.C.,et al.Nature 440:1045-1049(2006).