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Catenin-γ Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50192

Specification

Catenin-γ 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-γ 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℃

Catenin-γ 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. Membrane; Peripheral membrane protein. Note=Cytoplasmic in a soluble and membrane-associated form

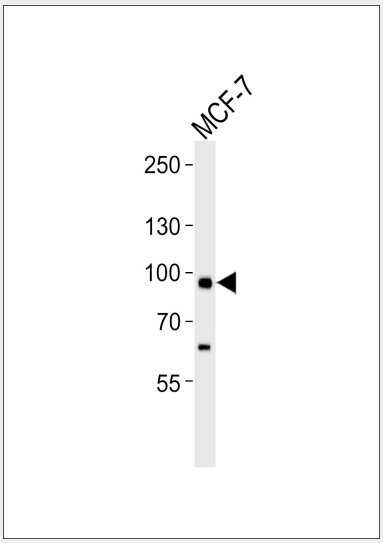
Tissue Location
Expressed in the heart (at protein level).

Catenin-γ Antibody - Protocols

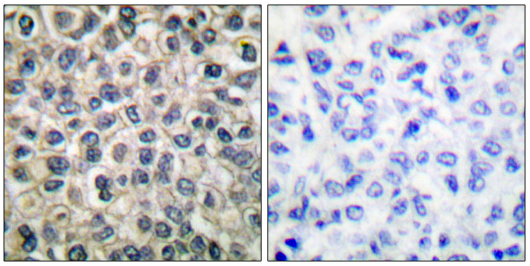
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Catenin-γ Antibody - Images



Western blot analysis of lysate from MCF-7 cell line,using Catenin-γ 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-γ antibody.

Catenin-γ Antibody - Background

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).

Catenin-γ 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).