

Anti-Gamma Catenin Antibody
Catalog # ABO10574**Specification**

Anti-Gamma Catenin Antibody - Product Information

Application	WB
Primary Accession	P14923
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Junction plakoglobin(JUP) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Gamma Catenin Antibody - Additional Information

Gene ID 3728

Other Names

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

Calculated MW

81745 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cell junction, adherens junction . Cell junction, desmosome . Cytoplasm, cytoskeleton . Membrane ; Peripheral membrane protein . Cytoplasmic in a soluble and membrane-associated form.

Protein Name

Junction plakoglobin

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human gamma Catenin(101-118aa LLATQVEGQATNLQRLAE), different from the related mouse and rat sequences by one amino acid.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the beta-catenin family.

Anti-Gamma Catenin 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)

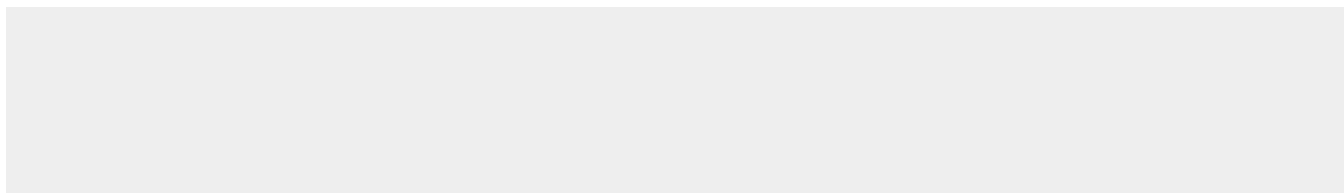
Tissue Location

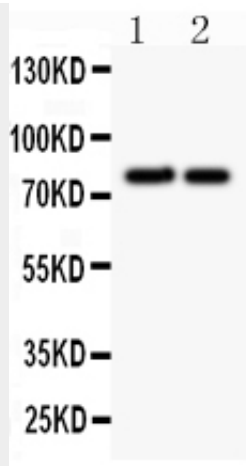
Expressed in the heart (at protein level).

Anti-Gamma Catenin 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-Gamma Catenin Antibody - Images



Anti- Catenin gamma antibody, ABO10574, Western blotting All lanes: Anti Catenin γ (ABO10574) at 0.5ug/ml Lane 1: MCF-7 Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Predicted bind size: 81KD Observed bind size: 81KD

Anti-Gamma Catenin Antibody - Background

Cateningamma, also known as junction plakoglobin(JUP) or plakoglobin(PKGB). Plakoglobin is a major cytoplasmic protein which is the only known constituent common to submembranous plaques of both desmosomes and intermediate junctions. Cateninbeta and cateninggamma(plakoglobin), vertebrate homologs of *Drosophila armadillo*, function in cell adhesion and the Wnt signaling pathway. Cateninggamma may have distinct roles in Wnt signaling and cancer via differential effects on downstream target genes.