

**Anti-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11)**  
**Catalog # ABO10407****Specification****Anti-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - Product Information**

Application	WB
Primary Accession	<a href="#">Q6P0K8</a>
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

**Description**

Mouse IgG monoclonal antibody for Catenin gamma (Plakoglobin), junction plakoglobin ( JUP) detection. Tested with WB, IHC-F, ICC in Human;bovine. No cross reactivity with other proteins.

**Reconstitution**

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

**Anti-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - Additional Information**

**Gene ID** 81679

**Other Names**

Junction plakoglobin, Jup

**Calculated MW**

81801 MW KDa

**Application Details**

Immunocytochemistry , 1 µg/ml, Human, bovine, -<br>Immunohistochemistry(Frozen Section), 4 µg/ml, Human, bovine, -<br>Western blot, 2 µg/ml, Human, bovine<br>

**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**

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN<sub>3</sub> as preservative.

**Immunogen**

Recombinant chicken plakoglobin.

**Purification**

Ascites

**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-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - Protein Information**

**Name** Jup {ECO:0000312|RGD:620412}

**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 {ECO:0000250|UniProtKB:P14923}. Cell junction, desmosome. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P14923}. Membrane {ECO:0000250|UniProtKB:P14923}; Peripheral membrane protein {ECO:0000250|UniProtKB:P14923}. Note=Cytoplasmic in a soluble and membrane-associated form

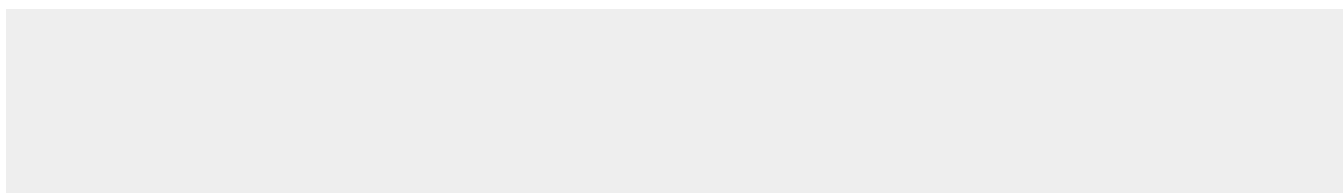
**Tissue Location**

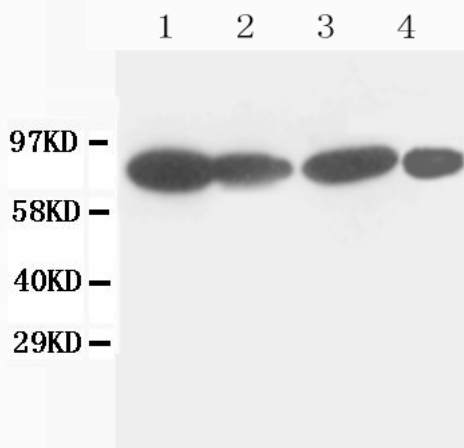
Expressed in the heart (at protein level).

**Anti-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - 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-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - Images**



Anti-Catenin gamma(Plakoglobin) antibody (monoclonal), ABO10407, Western blotting  
Lane 1: MCF-7 Cell Lysate  
Lane 2: HELA Cell Lysate  
Lane 3: MM231 Cell Lysate  
Lane 4: HT1080 Cell Lysate

### **Anti-Catenin Gamma (Plakoglobin) Antibody (Monoclonal, 15F11) - Background**

Junction Plakoglobin(JUP) ,also knows as catenin gamma, is a major cytoplasmic protein that occurs in a soluble and a membrane-associated form and is the only known constituent common to the submembranous plaques of both kinds of adhering junctions, the desmosomes and the intermediate junctions. It is a component of the cadherin-catenin complex, which is predominantly localized where actin filaments anchor in adherens junctions of epithelial cells. The human plakoglobin gene localizes on chromosome 17q21. Gamma-catenin is regulated by the APC tumor suppressor and its oncogenic activity is distinct from that of beta-catenin.