

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

Catalog # ABO10407

Product Information

Application	WB, IHC-F, ICC
Primary Accession	Q6P0K8
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.

Additional Information

Gene ID	81679
Other Names	Junction plakoglobin, Jup
Calculated MW	81801
Application Details	Immunocytochemistry , 1 µg/ml, Human, bovine, - Immunohistochemistry(Frozen Section), 4 µg/ml, Human, bovine, - Western blot, 2 µg/ml, Human, bovine
Subcellular Localization	Cell junction, adherens junction . Cell junction, desmosome . Cytoplasm, cytoskeleton . Membrane ; Peripheral membrane protein . Cytoplasmic in a soluble and membrane-associated form. .
Source	Eukaryota
Protein Name	Junction plakoglobin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	15F11
Immunogen	Recombinant chicken plakoglobin.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, 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.

Protein Information

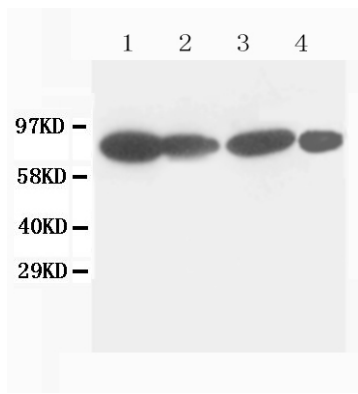
Name	Jup {ECO:0000312 RGD:620412}
Function	Common junctional plaque protein. The membrane-associated plaques are architectural elements in an important strategic position to influence the arrangement and function of both the cytoskeleton and the cells within the tissue. The presence of plakoglobin in 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). May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to outgrowth tips (By similarity).
Cellular Location	Cell junction, adherens junction {ECO:0000250 UniProtKB:P14923}. Cell junction, desmosome. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:P14923}. Cell membrane {ECO:0000250 UniProtKB:P14923}; Peripheral membrane protein {ECO:0000250 UniProtKB:P14923}. Cytoplasm {ECO:0000250 UniProtKB:Q9PVF7}. Cell junction {ECO:0000250 UniProtKB:Q9PVF7}. Nucleus {ECO:0000250 UniProtKB:Q9PVF7} Cell projection, axon {ECO:0000250 UniProtKB:Q02257}. Note=Cytoplasmic in a soluble and membrane-associated form. Colocalizes with DSG4 at desmosomes (By similarity). {ECO:0000250 UniProtKB:P14923}
Tissue Location	Expressed in the heart (at protein level).

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.

Images

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



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