

Anti-Gamma Catenin Picoband Antibody

Catalog # ABO11877

Product Information

Application	WB, IHC-P, IHC-F, ICC
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, IHC-P, IHC-F, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3728
Other Names	Junction plakoglobin, Catenin gamma, Desmoplakin III, Desmoplakin-3, JUP, CTNNG, DP3
Calculated MW	81745
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, - Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Rat, Human Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/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.
Source	Eukaryota
Protein Name	Junction plakoglobin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human gamma Catenin recombinant protein (Position: M556-A745). Human gamma Catenin shares 98% amino acid (aa) sequence identity with both mouse and rat gamma Catenin.
Purification	Immunogen affinity purified.
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 (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). May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to outgrowth tips (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} Cell projection, axon {ECO:0000250 UniProtKB:Q02257}. Note=Cytoplasmic in a soluble and membrane-associated form. Colocalizes with DSG4 at desmosomes (PubMed:21495994).
Tissue Location	Expressed in cardiomyocytes in the heart (at protein level). Expressed by keratinocytes in the skin (at protein level) (PubMed:26604139).

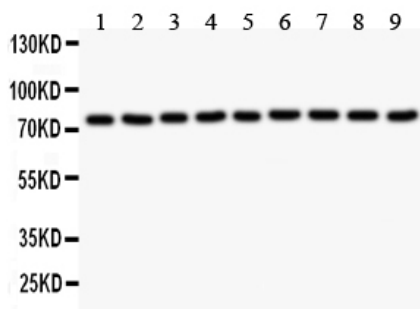
Background

Junction plakoglobin(JUP), also known as gamma-catenin, is a protein that in humans is encoded by the JUP gene. It is a member of the catenin protein family and homologous to Γ -catenin, and it is mapped to 17q21.2. This gene encodes a major cytoplasmic protein that is the only known constituent common to submembranous plaques of both desmosomes and intermediate junctions. This protein forms distinct complexes with cadherins and desmosomal cadherins. Meanwhile, JUP may have distinct roles in Wnt signaling and cancer via differential effects on downstream target genes.

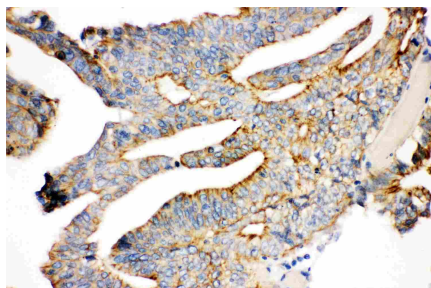
Images



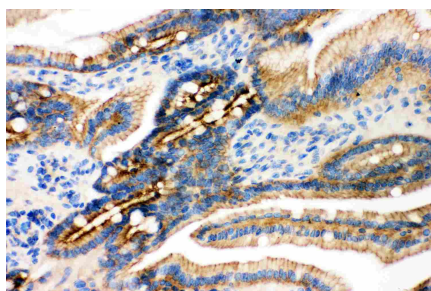
Anti- gamma Catenin Picoband antibody, ABO11877,
Western blottingAll lanes: Anti gamma
Catenin(ABO11877) at 0.5ug/mlWB: Recombinant Human
gamma Catenin Protein 0.5ngPredicted bind size:
47KDObserved bind size: 47KD



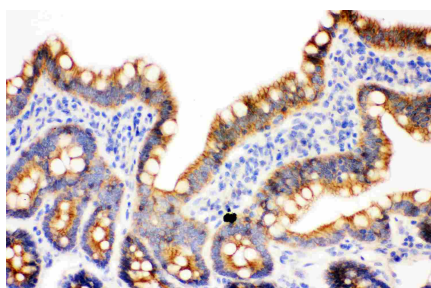
Anti- gamma Catenin Picoband antibody, ABO11877,
Western blottingAll lanes: Anti gamma Catenin
(ABO11877) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at
50ugLane 2: Rat Cardiac Muscle Tissue Lysate at
50ugLane 3: Rat Thymus Tissue Lysate at 50ugLane 4:
RH35 Whole Cell Lysate at 40ugLane 5: Hela Whole Cell
Lysate at 40ugLane 6: Colo320 Whole Cell Lysate at
40ugLane 7: HepG2 Whole Cell Lysate at 40ugLane 8:
HepA Whole Cell Lysate at 40ugLane 9: MCF-7 Whole Cell
Lysate at 40ugPredicted bind size: 81KD Observed bind
size: 81KD



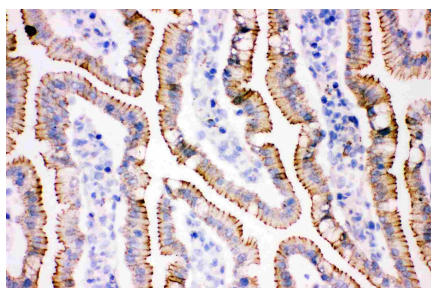
Anti- gamma Catenin Picoband antibody, ABO11877,
IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti- gamma Catenin Picoband antibody, ABO11877,
IHC(P)IHC(P): Mouse Intestine Tissue



Anti- gamma Catenin Picoband antibody, ABO11877,
IHC(P)IHC(P): Rat Intestine Tissue



Anti- gamma Catenin Picoband antibody, ABO11877,
IHC(F)IHC(F): Rat Intestine Tissue

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