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Rabbit Anti-gamma Catenin antibody

SL6990R

Product Name:	gamma Catenin
Chinese Name:	γ-连环素/连接蛋白γ抗体
Alias:	gamma Catenin; ARVD12; Catenin (cadherin associated protein) gamma 80kDa; Catenin (cadherin associated protein), gamma 80kDa; catenin (cadherin-associated protein) gamma (80kD); Catenin gamma 80kDa; Catenin gamma; Desmoplakin 3; Desmoplakin III; Desmoplakin-3; Desmoplakin3; DesmoplakinIII; DP 3; DP III; DP3; DPIII; Gamma catenin; Junction plakoglobin; JUP; PDGB; PKGB; PLAK_HUMAN; PLAKOGLOBIN;
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	82kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human gamma-Catenin:301-400/745
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a major cytoplasmic protein which 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 and is a member of the catenin family since it contains a distinct repeating amino acid motif called the armadillo repeat. Mutation in this gene has been associated with Naxos disease. Alternative splicing occurs in this gene; however, not all transcripts have been fully described. [provided by RefSeq].

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).

Subunit:
Homodimer. Component of an E-cadherin/ catenin adhesion complex composed of at least E-cadherin/CDH1 and gamma-catenin/JUP, and possibly alpha-catenin/CTNNA1; the complex is located to adherens junctions. The stable association of CTNNA1 is controversial as CTNNA1 was shown not to bind to F-actin when assembled in the complex. Interacts with MUC1. Interacts with CAV1 (By similarity). Interacts with PTPRJ. Interacts with DSC2

Subcellular Location:
Cell junction; adherens junction. Cell junction; desmosome. Cytoplasm; cytoskeleton. Membrane. Cytoplasmic in a soluble and membrane-associated form.

Post-translational modifications:
May be phosphorylated by FER.

DISEASE:
Defects in JUP are the cause of familial arrhythmogenic right ventricular dysplasia type 12 (ARVD12) [MIM:611528]; also called arrhythmogenic right ventricular cardiomyopathy 12 (ARVC12). ARVD is an autosomal dominant disease characterized by partial degeneration of the myocardium of the right ventricle, electrical instability, and sudden death. It is clinically defined by electrocardiographic and angiographic criteria; pathologic findings, replacement of ventricular myocardium with fatty and fibrous elements, preferentially involve the right ventricular free wall.

Similarity:
Belongs to the beta-catenin family. Contains 9 ARM repeats.

SWISS:
P14923

	Gene ID: 3728 **Database links:** Entrez Gene: 3728Human Entrez Gene: 16480Mouse Entrez Gene: 81679Rat Omim: 173325Human SwissProt: P14923Human SwissProt: Q02257Mouse SwissProt: Q6P0K8Rat Unigene: 514174Human Unigene: 299774Mouse Unigene: 11255Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.