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Goat anti-Plakoglobin / Gamma-catenin, Biotinylated Antibody

Peptide-affinity purified goat antibody
Catalog # AF4357a

Product Information

Application	WB, Pep-ELISA
Primary Accession	P14923
Other Accession	NP_002221.1, NP_068831.1
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Clone Names	JUP
Calculated MW	81745

Additional Information

Gene ID	3728
Other Names	JUP; junction plakoglobin; ARVD12; CTNNG; DP3; DPIII; PDGB; PKGB; catenin (cadherin-associated protein), gamma 80kDa; desmoplakin III; desmoplakin-3
Dilution	WB~~1:1000 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	This antibody is expected to recognise both reported isoforms, as represented by NP_002221.1 and NP_068831.1.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-Plakoglobin / Gamma-catenin, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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).