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# Goat anti-Plakoglobin / Gamma-catenin, Biotinylated Antibody

Peptide-affinity purified goat antibody
Catalog # AF4357a

## Product Information

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| **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

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| **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

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| **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 |

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| | 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). |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.