

KD-Validated Anti-JUP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1054

Product Information

Application	WB, FC, ICC
Primary Accession	P14923
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB6055
Calculated MW	81745
Gene Name	JUP
Aliases	JUP; Junction Plakoglobin; DP3; DPIII; CTNNG; PDGB; PKGB; PG; Catenin (Cadherin-Associated Protein), Gamma 80kDa; Desmosomal Protein 3; Desmoplakin III; Desmoplakin-3; Catenin Gamma
Immunogen	A synthesized peptide derived from human Catenin gamma

Additional Information

Gene ID	3728
Other Names	Junction plakoglobin, Catenin gamma, Desmoplakin III, Desmoplakin-3, JUP (HGNC:6207)

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).

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