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JUP Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2123a

Product Information

Application	WB, E
Primary Accession	P14923
Other Accession	Q6P0K8, Q8WNW3, Q02257, Q8SPJ1, NP_002221.1
Reactivity	Human
Predicted	Bovine, Mouse, Pig, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG3
Clone Names	606CT21.5.1
Calculated MW	81745
Antigen Region	636-663

Additional Information

Gene ID	3728
Other Names	Junction plakoglobin, Catenin gamma, Desmoplakin III, Desmoplakin-3, JUP, CTNNG, DP3
Target/Specificity	This JUP antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 636-663 amino acids from human JUP .
Dilution	WB~~1:100~1600 E~~Use at an assay dependent concentration.
Format	Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	JUP Antibody (Ascites) 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).
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} Note=Cytoplasmic in a soluble and membrane-associated form. Colocalizes with DSG4 at desmosomes (PubMed:21495994)
Tissue Location	Expressed in the heart (at protein level).

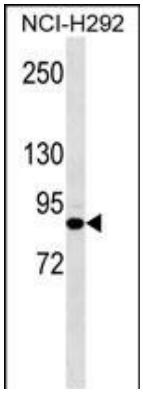
Background

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.

References

Fressart, V., et al. Europace 12(6):861-868(2010)
Cabral, R.M., et al. J. Invest. Dermatol. 130(6):1543-1550(2010)
Aktary, Z., et al. Oncogene 29(14):2118-2129(2010)
Pryczynicz, A., et al. Folia Histochem. Cytobiol. 48(1):128-133(2010)
Czyzewska, J., et al. Folia Histochem. Cytobiol. 48(1):37-45(2010)

Images



JUP Antibody (Ascites)(Cat. #AM2123a) western blot analysis in NCI-H292 cell line lysates (35µg/lane).This demonstrates the JUP antibody detected the JUP protein (arrow).