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KD-Validated Anti-JUP Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1054

Specification

KD-Validated Anti-JUP Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P14923
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 82 kDa, observed, 75 kDa KDa**
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**

KD-Validated Anti-JUP Rabbit Monoclonal Antibody - Additional Information

Gene ID	**3728**

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

KD-Validated Anti-JUP Rabbit Monoclonal Antibody - 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)

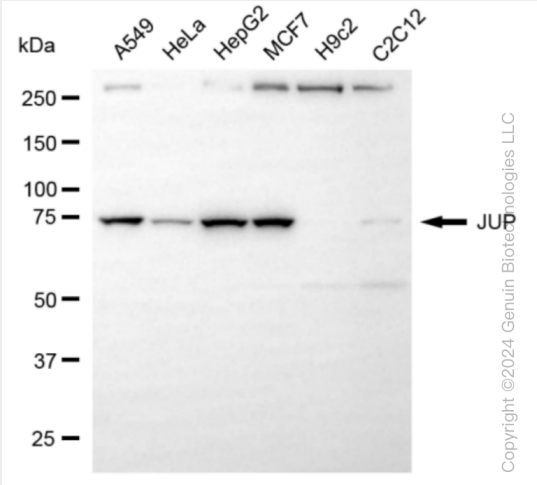
Tissue Location
Expressed in the heart (at protein level).

KD-Validated Anti-JUP Rabbit Monoclonal Antibody - Protocols

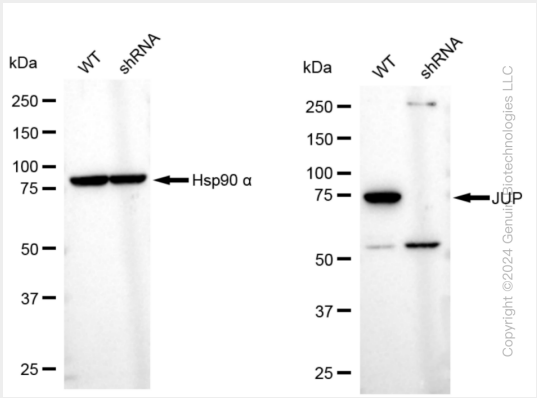
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-JUP Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-JUP antibody (Cat#AGI1054). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-JUP antibody (Cat#AGI1054, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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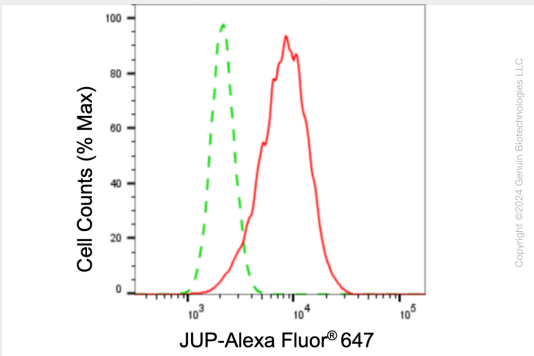
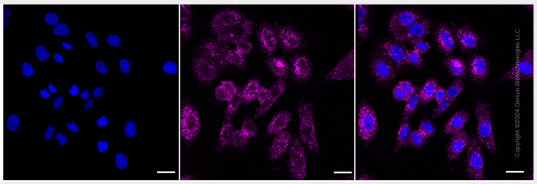
Western blotting analysis using anti-JUP antibody (Cat#AGI1054). JUP expression in wild type (WT) and JUP shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-JUP antibody (Cat#AGI1054, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of JUP expression in HepG2 cells using JUP antibody (Cat#AGI1054, 1:2,000). Green, isotype control; red, JUP.



Immunocytochemical staining of HepG2 cells with anti-JUP antibody (Cat#AGI1054, 1:1,000). Nuclei were stained blue with DAPI; JUP was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.