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JUP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant JUP.
Catalog # AT2587a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P14923
Other Accession	BC011865
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2G9
Calculated MW	81745

Additional Information

Gene ID	3728
Other Names	Junction plakoglobin, Catenin gamma, Desmoplakin III, Desmoplakin-3, JUP, CTNNG, DP3
Target/Specificity	JUP (AAH11865.1, 1 a.a. ~ 745 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	JUP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

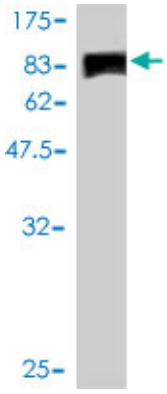
Background

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.

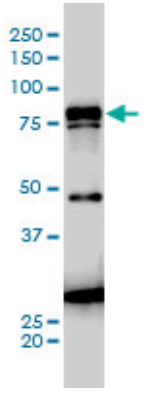
References

Expression of the E-cadherin-catenin complex in patients with pancreatic ductal adenocarcinoma. Pryczynicz A, et al. Folia Histochem Cytobiol, 2010 Jan 1. PMID 20529828. The expression of E-cadherin-catenin complex in patients with advanced gastric cancer: role in formation of metastasis. Czyzewska J, et al. Folia Histochem Cytobiol, 2010 Jan 1. PMID 20529814. Desmosomal gene analysis in arrhythmogenic right ventricular dysplasia/cardiomyopathy: spectrum of mutations and clinical impact in practice. Fressart V, et al. Europace, 2010 Jun. PMID 20400443. Homozygous mutations in the 5' region of the JUP gene result in cutaneous disease but normal heart development in children. Cabral RM, et al. J Invest Dermatol, 2010 Jun. PMID 20130592. Plakoglobin interacts with and increases the protein levels of metastasis suppressor Nm23-H2 and regulates the expression of Nm23-H1. Aktary Z, et al. Oncogene, 2010 Apr 8. PMID 20101217.

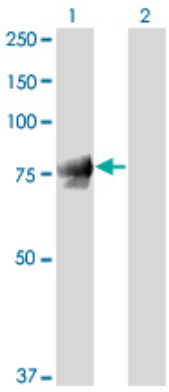
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (107.69 KDa) .



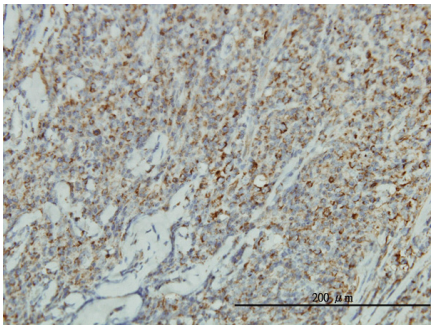
JUP monoclonal antibody (M01), clone 2G9 Western Blot analysis of JUP expression in A-431 ((Cat # AT2587a)

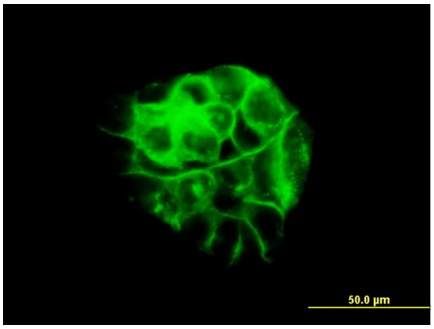


Western Blot analysis of JUP expression in transfected 293T cell line by JUP monoclonal antibody (M01), clone 2G9.

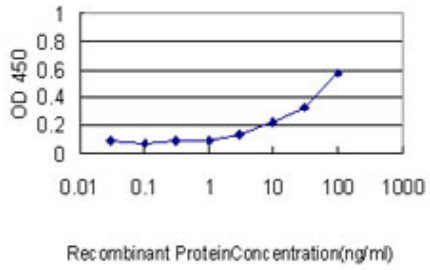
Lane 1: JUP transfected lysate(81.7 KDa).
Lane 2: Non-transfected lysate.

Immunoperoxidase of monoclonal antibody to JUP on formalin-fixed paraffin-embedded human lymphoma tissue. [antibody concentration 3 ug/ml]





Immunofluorescence of monoclonal antibody to JUP on A-431 cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged JUP is approximately 1ng/ml as a capture antibody.

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