Recombinant Human JUP protein, GST-tagged

Cat. No. JUP-27307TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human JUP1 a.a. - 745 a.a.fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-745 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	107.69 kDa
AA Sequence	MEVMNLMEQPIKVTEWQQTYTYDSGIHSGANTCVPSVSSKGIMEEDEACGRQYTLK KTTTYTQGVPPSQGDLEYQMSTTARAKRVREAMCPGVSGEDSSLLLATQVEGQAT NLQRLAEPSQLLKSAIVHLINYQDDAELATRALPELTKLLNDEDPVVVTKAAMIVNQLS KKEASRRALMGSPQLVAAVVRTMQNTSDLDTARCTTSILHNLSHHREGLLAIFKSGG

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	IPALVRMLSSPVESVLFYAITTLHNLLLYQEGAKMAVRLADGLQKMVPLLNKNNPKFL AITTDCLQLLAYGNQESKLIILANGGPQALVQIMRNYSYEKLLWTTSRVLKVLSVCPS NKPAIVEAGGMQALGKHLTSNSPRLVQNCLWTLRNLSDVATKQEGLESVLKILVNQL SVDDVNVLTCATGTLSNLTCNNSKNKTLVTQNSGVEALIHAILRAGDKDDITEPAVCA LRHLTSRHPEAEMAQNSVRLNYGIPAIVKLLNQPNQWPLVKATIGLIRNLALCPANHA PLQEAAVIPRLVQLLVKAHQDAQRHVAAGTQQPYTDGVRMEEIVEGCTGALHILARD PMNRMEIFRLNTIPLFVQPLYSSVENIQRVAAGALCELAQDKEAADAIDAEGASAPLM ELLHSRNEGTATYAAAVLFRISEDKNPDYRKRVSVELTNSLFKHDPAAWEAAQSMIPI NEPYGDDLDATYRPMYSSDVPLDPLEMHMDMDGDYPIDTYSDGLRPPYPTADHML A	
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	JUP junction plakoglobin [Homo sapiens]
Official Symbol	JUP
Synonyms	JUP; junction plakoglobin; catenin (cadherin associated protein), gamma 80kDa , CTNNG; DP3; DPIII; PDGB; PKGB; catenin gamma; desmoplakin-3; gamma-catenin; desmoplakin III; catenin (cadherin-associated protein), gamma 80kDa; catenin (cadherin-associated protein), gamma (80kD); CTNNG; ARVD12;
Gene ID	3728

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mRNA Refseq	NM_002230
Protein Refseq	NP_002221
MIM	173325
UniProt ID	P14923
Chromosome Location	17q21
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adherens junctions interactions, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cell junction organization, organism-specific biosystem;
Function	RPTP-like protein binding; alpha-catenin binding; cadherin binding; protein binding; protein homodimerization activity; protein kinase binding; protein phosphatase binding; structural constituent of cell wall; structural molecule activity; transcription coactivator activity;

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