

Recombinant Full Length Human PKP2 Protein, C-Myc/DDK-tagged

Cat. No. PKP2-670HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Protein of Human PKP2, transcript variant 2a, fused to Myc/DDK-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
Description	This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families. Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This gene may regulate the signaling activity of beta-catenin and is required to maintain transcription of genes that control intracellular calcium cycling including ryanodine receptor 2, ankyrin-B, triadin, and calcium channel, voltage-dependent, L type, alpha 1C. Mutations in this gene are associated with different inherited cardiac conditions including Arrhythmogenic Cardiomyopathy, Brugada Syndrome, and Idiopathic Ventricular Fibrillation. A processed pseudogene with high similarity to this gene has been mapped to chromosome 12p13.
Form	100 mM Glycine, pH 3.5, 10% Glycerol.
Molecular Mass	92.7 kDa
AA Sequence	MAAPGAPAEYGYIRTVLGQQILGQLDSSSLALPSEAKLKLKLAGSSGRGGQTVKSLRIQ EQVQQT LARKGRS SVGNGNLHRTSSVPEYVYNLHLVENDFVGG RSPVPKTYDMLK

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AGTTATYEGRWGRGTAQYSSQKSVEERS LRHPLRRLEISPDSSPERAHYTHSDYQ
 YSQRSQAGHTLHHQESRRAALLVPPRYARSEIVGVSRAGTTSR QRHFDYHRQYQ
 HGSVSDTVFDSIPANPALLTYPRPGTSRSMGNLLEKENYLTAGLTVGQVRPLVPLQP
 V TQNRASRSSWHQSSFHSTRTLREAGPSVAVDSSGRRRAHLTVGQAAAGGSGNLL
 TERSTFTDSQLGNADME MTLERAVSMLEADHMPPSRISAAATFIQHECFQKSEARK
 RVNQLRGILKLLQLLKVNEDVQRAVCGALR NLVFEDNDNKLEVAELNGVPRLLQV
 LKQTRDLETKKQITGLLWNLSSNDKLNLMITEALLTLTENIIP FSGWPEGDYPKAN
 GLLDFDIFYNVTGCLRNMSAGADGRKAMRRCDGLIDSLVHYVRGTIADYQPDDKA
 T ENCVCILHNLSYQLEAELPEKYSQNIYIQNRNIQTDNNKSIGCFGSRSRKVKEQYQ
 DVPMPEEKSNPKG V EWLWHSIVIRMYLSLIAKSVRNYTQEASLGALQNLTAGSGPM
 PTSVAQTVVQKESGLQHTRKMLHVGDP V VKKTAISLLRNLSRNLSLQNEIAKETLPD
 LVSIIPDTPSTDLLIETTASACYTLNNIIQNSYQNARDLL NTGGIQQIMASAGDAYAS
 NKASKAASVLLYSLWAHTELHHAYKKAQFKKTDVNSRTAKAYHSLKD TRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/µl as determined by microplate BCA method.
Protein Pathways	Arrhythmogenic right ventricular cardiomyopathy (ARVC)
Full Length	Full L.

GENE INFORMATION

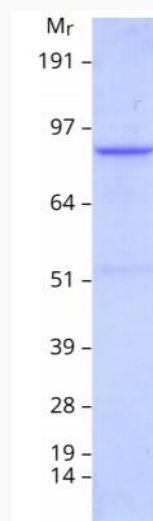
Gene Name PKP2 plakophilin 2 [Homo sapiens (human)]

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Official Symbol	PKP2
Synonyms	ARVD9
Gene ID	5318
mRNA Refseq	NM_004572.4
Protein Refseq	NP_004563.2
MIM	602861
UniProt ID	Q99959

SDS-PAGE


Coomassie blue staining of purified PKP2 protein.

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