

Recombinant Human PKP2 Protein, C-MYC/DDK tagged

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

SPECIFICATION

Product Overview	Recombinant protein of Human plakophilin 2 (PKP2), transcript variant 2a with C-Myc/DDK tag 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.
Molecular Mass	92.7 kDa
AA Sequence	MAAPGAPAEYGYIRTVLGQQILGQLDSSSLALPSEAKLKLKLAGSSGRGGQTVKSLRIQ EQVQQTLARKGRSSVGNGNLHRTSSVPEYVYNLHLVENDFVGGRSPVPKTYDMLK AGTTATYEGRWGRGTAQYSSQKSVEERSLRHPLRRLEISPDSSPERAHYTHSDYQ YSQRSQAGHTLHHQESRRAALLVPPRYARSEIVGVSRAGTTSRQRHFDTYHRQYQ

 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

HGSVSDTVFDSIPANPALLTYPRPGTSRSMGNLLEKENYLTAGLTVGQVRPLVPLQP
VTQNRASRSSWHQSSFHSTRTLREAGPSVAVDSSGRRRAHLTVGQAAAGGSGNLLT
ERSTFTDSQLGNADMEMTLERAVSMLEADHMPPSRISAAATFIQHECFQKSEARKR
VNQLRGILKLLQLLKVQNEVDQRAVCGALRNLFEDNDNKLEVAELNGVPRLLQVLK
QTRDLETKKQITGLLWNLSSNDKLNLMITEALLTLTENIIIPFSGWPEGDYPKANGLL
DFDIFYNVTGCLRNMSAGADGRKAMRRCDGLIDSLVHYVRGTIADYQPPDKATEN
CVCILHNLSYQLEAELPEKYSQNIYIQNRNIQTDNNKSIGCFGSRSRKVKEQYQDVP
MPEEKSNPKGVEWLWHSIVIRMYLSLIAKSVRNYTQEASLGALQNLTAGSGPMPTS
VAQTVVQKESGLQHTRKMLHVGDPVSKKTAISLLRNLSRNLSLQNEIAKETLPDLVSII
PDTVPSTDLIETTASACYTLNNIIQNSYQNARDLLNTGGIQKIMASAGDAYASNKAS
KAASVLLYSLWAHTELHHAYKKAQFKKTDVNSRTAKAYHSLKDTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

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	> 0.05 µg/µL as determined by Bradford protein assay method.
Storage Buffer	100 mM Glycine, pH 3.5, 10 % Glycerol

GENE INFORMATION

Gene Name	PKP2 plakophilin 2 [Homo sapiens (human)]
Official Symbol	PKP2
Synonyms	PKP2; plakophilin 2; ARVD9;

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Gene ID	5318
mRNA Refseq	NM_004572
Protein Refseq	NP_004563
MIM	602861
UniProt ID	Q99959
SDS-PAGE	