

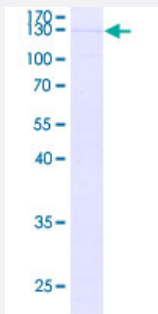
Full-Length

PKP2 (Human) Recombinant Protein (P01)

Catalog # H00005318-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PKP2 full-length ORF (ADR83411.1, 1 a.a. - 837 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MAAPGAPAEYGYIRTVLGQQILGQLDSSSLALPSEAKLKLAGESSGRGGQTVKSLRIQEQVQQTLA
RKGRSSVGNGNLHRTSSVPEYVYNLHLVENDFVGGRSPVPKTYDMLKAGTTATYEGRWGRGTA
QYSSQKSVEERSLRHPLRRLEISPDSSPERAHYTHSDYQYSQRSQAGHTLHHQESRRAALLVPPR
YARSEIVGVSRA GTTSRQRHFDYHRQYQHGSVSDTVFDSIPANPALLTYPRPGTSRSMGNLLEK
ENYLTAGLTVGQVRPLVPLQPVTQNRASRSSHQSSFHSTRTLREAGPSVAVDSSGRRAHLTVG
QAAAGGSGNLLTERSTFTDSQLGNADMEMTLERAVSMLEADHMLPSRISAAATFIQHECFQKSE
ARKRVNQLRGILKLLQLLKVQNEDEVQRAVCGALRNLFEDNDNKLEVAELNGVPRLLQVLKQTRD
LETKKQITGLLWNLSSNDKLNLMITEALLLTENIIIPFSGWPEGDYPKANGLLDFDIFYNVTGCLR
MSSAGADGRKAMRRCDGLIDSLVHYVRGTIADYQPDDKATENCVCILHNLSYQLEAELPEKYSQNI
YQNRNIQTDNNKSIGCFGSRSRKVKEQYQDVPMPEEKS NPKGVEWLWHSVIRMYLSIAKSVRN
YTQEASLGALQNLTAGSGPMPTSAQTVVQKESGLQHTRKMLHVGDPSPVKKTAISLLRNLSRNLS
LQNEIAKETLPDLVSIIPDTPSTDLLETTASACYTLNNIIQNSYQNARDLLNTGGIQKIMASAGDAYA
SNKASKAASVLLYSLWAHTELHHAYKKAQFKKTDVFVNSRTAKAYHSLKD

Theoretical MW (kDa)

118.5

Interspecies Antigen Sequence

Mouse (78); Rat (79)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PKP2

Entrez GeneID	5318
GeneBank Accession#	HQ258660.1
Protein Accession#	ADR83411.1
Gene Name	PKP2
Gene Alias	ARVD9, MGC177501
Gene Description	plakophilin 2
Omim ID	602861 609040
Gene Ontology	Hyperlink
Gene Summary	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 product may regulate the signaling activity of beta-catenin. Two alternately spliced transcripts encoding two protein isoforms have been identified. A processed pseudogene with high similarity to this locus has been mapped to chromosome 12p13. [provided by RefSeq]

Other Designations

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Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)

Disease

- [Arrhythmias](#)
- [Arrhythmogenic Right Ventricular Dysplasia](#)
- [Cardiomyopathies](#)
- [Genetic Predisposition to Disease](#)
- [Tachycardia](#)