

## Product datasheet for PH316972

### Plakophilin 1 (PKP1) (NM\_001005337) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PKP1 MS Standard C13 and N15-labeled recombinant protein (NP_001005337)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216972
Predicted MW:	80.5 kDa
Protein Sequence:	>RC216972 protein sequence Red=Cloning site Green=Tags(s)

MNHSPLKTALAYECFQDQDNSTLALPSDQKMKGTSGRQRVQEQVMMTVKRQKSKSSQSSTLSHSNRGSM  
YDGLADNYNYGTTSRSSYYSKFQAGNGSWGYPYIYNGTLKREPDRRFSSYSQMENWSRHYPRGSCNTTGA  
GSDICFMQKIKASRSEPDLYCDPRGTLRKGTLGSKGQKTTQNRYSFYSTCSGQKAIKKCPVRPPSCASKQ  
DPVYIPPIISCNKDL SFGHSRASSKICSEDI EICSGLTIPKAVQYLSQDEKYQAIGAYYI QHTCFQDESAK  
QQVYQLGGICKLVDLLRSPNQNVQAAAGALRNLVFRSTTNKLETRRQNGIREAVSLLRRTGNAEIQKQL  
TGLLWNL SSTDDELKEELIADALPVLADRVII PFSGWCDGNSNMSREVVDPEVFFNATGCLRNLSSADAGR  
QTMRNYSGLIDSLMAYVQNCVAASRCDDKSVENCMCVLHNL SYRLDAEVPTRYRQLEYNARNAYTEKSST  
GCFSNKSDKMMNNYDCPLPEEETNPKGSGWL YHSDAIRTYLNL MGKSKKDATLEACAGALQNL TASKGL  
MSSGMSQLIGLKEKGLPQIARLLQSGNSDVVRSGASLLSNMSRHPLLRVGMGNQVFPEVTRLLTSHTGNT  
SNSEDILSSACYTVRNL MASQPQLAKQYFSSMLNINI INLCRSSASPKAEEAARLLLSDMWSSKELQGVL  
RQQGFDRNMLGTLAGANSLRNFTSRF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001005337</a>



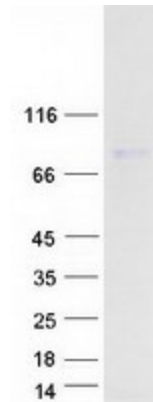
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RefSeq Size:	5384
RefSeq ORF:	2178
Synonyms:	B6P; EDSFS
Locus ID:	5317
UniProt ID:	<a href="#">Q13835</a> , <a href="#">A0A024R952</a>
Cytogenetics:	1q32.1

**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 protein may be involved in molecular recruitment and stabilization during desmosome formation. Mutations in this gene have been associated with the ectodermal dysplasia/skin fragility syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified PKP1 protein (Cat# [TP316972]). The protein was produced from HEK293T cells transfected with PKP1 cDNA clone (Cat# [RC216972]) using MegaTran 2.0 (Cat# [TT210002]).