

Product datasheet for PH301741

PCNA (NM_002592) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PCNA MS Standard C13 and N15-labeled recombinant protein (NP_002583)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201741
Predicted MW:	28.8 kDa
Protein Sequence:	>RC201741 protein sequence Red=Cloning site Green=Tags(s) MFEARLVQGSILKKVLEALKDLINACWDISSSGVNLQSMDSHVSLVQLTLRSEGFDTYRCDRNLAMGV NLTSMKILKCAINEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKMLMDL DVEQLGIPEQEYSCVVKMP SGEFARICRDL SHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALR YLNFFTKATPLSSTVTLSMSADVPLVVEYKIADMGHLKYLLAPKIEDEEGS 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_002583
RefSeq Size:	1355
RefSeq ORF:	783
Synonyms:	ATLD2
Locus ID:	5111
UniProt ID:	P12004



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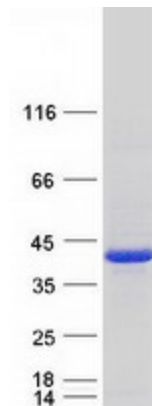
Cytogenetics: 20p12.3

Summary: The protein encoded by this gene is found in the nucleus and is a cofactor of DNA polymerase delta. The encoded protein acts as a homotrimer and helps increase the processivity of leading strand synthesis during DNA replication. In response to DNA damage, this protein is ubiquitinated and is involved in the RAD6-dependent DNA repair pathway. Two transcript variants encoding the same protein have been found for this gene. Pseudogenes of this gene have been described on chromosome 4 and on the X chromosome. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Base excision repair, Cell cycle, DNA replication, Mismatch repair, Nucleotide excision repair

Product images:



Coomassie blue staining of purified PCNA protein (Cat# [TP301741]). The protein was produced from HEK293T cells transfected with PCNA cDNA clone (Cat# [RC201741]) using MegaTran 2.0 (Cat# [TT210002]).