Recombinant Human Proliferating cell nuclear antigen(PCNA)



Catalog No: #AP73753

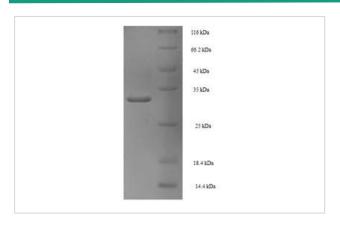
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Description	
Product Name	Recombinant Human Proliferating cell nuclear antigen(PCNA)
Brief Description	Recombinant Protein
Host Species	E.coli
Target Name	PCNA
Other Names	Cyclin
Accession No.	Uniprot ID: P12004
Target Species	Hu
SDS-PAGE MW	32.85kDa
Target Length	Full Length,1-261aa
Tag Info	N-terminal 6xHis-tagged
-	
Target Sequence	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT
	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT
	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT SMSKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARI
	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT SMSKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARI CRDLSHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPL
Target Sequence	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT SMSKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARI CRDLSHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPL SSTVTLSMSADVPLVVEYKIADMGHLKYYLAPKIEDEEGS
Target Sequence Formulation	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT SMSKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARI CRDLSHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPL SSTVTLSMSADVPLVVEYKIADMGHLKYYLAPKIEDEEGS Tris-based buffer,50% glycerol
Target Sequence Formulation	MFEARLVQGSILKKVLEALKDLINEACWDISSSGVNLQSMDSSHVSLVQLTLRSEGFDTYRCDRNLAMGVNLT SMSKILKCAGNEDIITLRAEDNADTLALVFEAPNQEKVSDYEMKLMDLDVEQLGIPEQEYSCVVKMPSGEFARI CRDLSHIGDAVVISCAKDGVKFSASGELGNGNIKLSQTSNVDKEEEAVTIEMNEPVQLTFALRYLNFFTKATPL SSTVTLSMSADVPLVVEYKIADMGHLKYYLAPKIEDEEGS Tris-based buffer,50% glycerol The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability

Application Details

Greater than 90% as determined by SDS-PAGE.

Images



Background

Auxiliary protein of DNA polymerase delta and is involved in the control of eukaryotic DNA replication by increasing the polymerase's processibility during elongation of the leading strand. Induces a robust stimulatory effect on the 3'-5' exonuclease and 3'-phosphodiesterase, but not apurinic-apyrimidinic (AP) endonuclease, APEX2 activities. Has to be loaded onto DNA in order to be able to stimulate APEX2. Plays a key role in DNA damage response (DDR) by being conveniently positioned at the replication fork to coordinate DNA replication with DNA repair and DNA damage tolerance pathways (PubMed:24939902). Acts as a loading platform to recruit DDR proteins that allow completion of DNA replication after DNA damage and promote postreplication repair: Monoubiquitinated PCNA leads to recruitment of translesion (TLS) polymerases, while 'Lys-63'-linked polyubiquitination of PCNA is involved in error-free pathway and employs recombination mechanisms to synthesize across the lesion.

References

"Cloning and sequence of the human nuclear protein cyclin: homology with DNA-binding proteins." Almendral J.M., Huebsch D., Blundell P.A., Macdonald-Bravo H., Bravo R.Proc. Natl. Acad. Sci. U.S.A. 84:1575-1579(1987)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.