

Product datasheet

Recombinant Human PCNA protein ab85651

1 图像

概述

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| 产品名称 | Recombinant人PCNA protein |
| 蛋白长度 | Full length protein |

描述

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| 性质 | Recombinant |
| 来源 | Escherichia coli |
| 氨基酸序列 | |
| 种属 | Human |

技术指标

Our [Abpromise guarantee](#) covers the use of **ab85651** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| 应用 | Western blot SDS-PAGE |
| 形式 | Liquid |

制备和贮存

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| 稳定性和存储 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. Preservative: 150mM Imidazole Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 2mM DTT, 0.1mM PMSF, pH 7.0 |
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常规信息

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| 功能 | This protein is an 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 |
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be loaded onto DNA in order to be able to stimulate APEX2.

序列相似性

Belongs to the PCNA family.

翻译后修饰

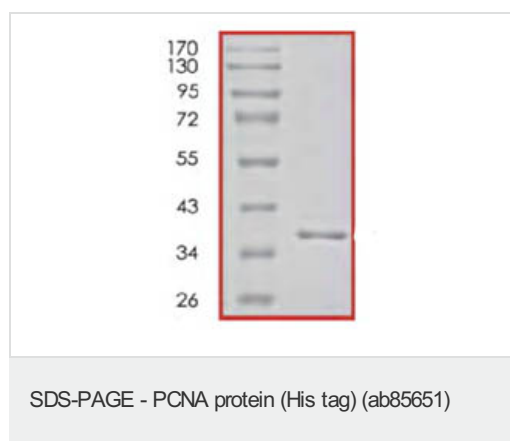
Upon methyl methanesulfonate-induced DNA damage, mono-ubiquitinated by the UBE2B-RAD18 complex on Lys-164. This induces non-canonical polyubiquitination on Lys-164 through 'Lys-63' linkage of ubiquitin moieties by the E2 complex UBE2N-UBE2V2 and the E3 ligases, HLTF, RNF8 and SHPRH, which is required for DNA repair. 'Lys-63' polyubiquitination prevents genomic instability on DNA damage. Monoubiquitination at Lys-164 also takes place in undamaged proliferating cells, and is mediated by the DCX(DTL) complex, leading to enhance PCNA-dependent translesion DNA synthesis.

Acetylated in response to UV irradiation. Acetylation disrupts interaction with NUDT15 and promotes degradation.

细胞定位

Nucleus. Forms nuclear foci representing sites of ongoing DNA replication and vary in morphology and number during S phase. Together with APEX2, is redistributed in discrete nuclear foci in presence of oxidative DNA damaging agents.

图片



SDS-PAGE showing ab85651 at approximately 37kDa.

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