

Recombinant Human Ku80 protein ab132946

画像数 1

製品の詳細

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|-------------|--------------------------------|
| 製品名 | Recombinant Human Ku80 protein |
| 発現系 | Wheat germ |
| アクセッション番号 | <u>P13010</u> |
| タンパク質長 | Full length protein |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 配列 | |

MVRSGNKAADVLCMDVGFTMSNSIPGIESPFQAKKVITMFV
QRQVFAEN
KDEIALVLFQTDGTDNPLSGGDQYQNITVHRHMLPDFDLLE
DIESKIQP
GSQQADSLDALIVSMDVIQHETIGKKFEKRHIEIFDLSRF
SKSQLDII
IHSKKCDISLQFFLPFSLGKEDGSGDRGDPFRLGGHGSPF
PLKGITEQ
QKEGLEIVKMMISLEGEDGLDEIYSFSESLRKLCVFKKIER
HSIHWPCR
LTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIQKE
TVYCLNDD
DETEVLKEDIQGFYRYSDIVPFSKVDEEQMKYSEGKCFVS
LGFCSSQ
VQRRFFMGNQVLKVFAARDDEAAVALSSLIHALDDLDMVAI
VRYAYDKR
ANPQGVAFPHIKHNYECLVYVQLPFMEDLRQYMFSSLKNSK
KYAPTEAQ
LNAVDALIDMSLAKKDEKTDLTLEDLPPTTKIPNPRFQRLFQ
CLLHRALH
PREPLPPIQQHIWNMLNPPAEVTTKSQIPLSKIKTLPPLIEA
KKKDQVTA
QEIQDNHEDGPTAKKLKTEQGGAHFSVSSLAEGSVTSVGSV
NPAENFRV
LVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAF
REEAIKFS
EEQRFNNFLKALQEKVEIKQLNHFWEIVVQDGIALITKEEAS
GSSVTAEE AKKFLAPKDKPSGDAAVFEEGGDVDDLDMI

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| 予測される分子量 | 106 kDa including tags |
| 領域 | 1 to 732 |

特性

Our **Abpromise guarantee** covers the use of **ab132946** 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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| アプリケーション | ELISA |
| | Western blot |
| | SDS-PAGE |

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| 製品の状態 | Liquid |
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備考

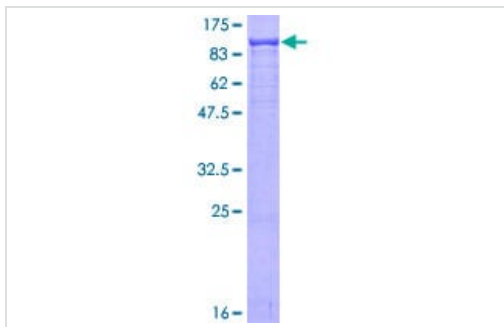
前処理および保存

| | |
|------------|---|
| 保存方法および安定性 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. |
| | pH: 8.00 |
| | Constituents: 0.31% Glutathione, 0.79% Tris HCl |

関連情報

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| 機能 | Single stranded DNA-dependent ATP-dependent helicase. Has a role in chromosome translocation. The DNA helicase II complex binds preferentially to fork-like ends of double-stranded DNA in a cell cycle-dependent manner. It works in the 3'-5' direction. Binding to DNA may be mediated by XRCC6. Involved in DNA non-homologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination. The XRCC5/6 dimer acts as regulatory subunit of the DNA-dependent protein kinase complex DNA-PK by increasing the affinity of the catalytic subunit PRKDC to DNA by 100-fold. The XRCC5/6 dimer is probably involved in stabilizing broken DNA ends and bringing them together. The assembly of the DNA-PK complex to DNA ends is required for the NHEJ ligation step. In association with NAA15, the XRCC5/6 dimer binds to the osteocalcin promoter and activates osteocalcin expression. The XRCC5/6 dimer probably also acts as a 5'-deoxyribose-5-phosphate lyase (5'-dRP lyase), by catalyzing the beta-elimination of the 5' deoxyribose-5-phosphate at an abasic site near double-strand breaks. XRCC5 probably acts as the catalytic subunit of 5'-dRP activity, and allows to 'clean' the termini of abasic sites, a class of nucleotide damage commonly associated with strand breaks, before such broken ends can be joined. The XRCC5/6 dimer together with APEX1 acts as a negative regulator of transcription. |
| 配列類似性 | Belongs to the ku80 family. Contains 1 Ku domain. |
| 発生段階 | Expression increases during promyelocyte differentiation. |
| ドメイン | The EEXXXDDL motif is required for the interaction with catalytic subunit PRKDC and its recruitment to sites of DNA damage. |
| 翻訳後修飾 | Phosphorylated on serine residues. Phosphorylation by PRKDC may enhance helicase activity. Sumoylated. |

画像



12.5% SDS-PAGE analysis of ab132946 stained with Coomassie Blue

SDS-PAGE - Recombinant Human Ku80 protein
(ab132946)

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