

Product datasheet

Recombinant Human FEN1 protein ab95382

★★★★☆ 1 Abreviews 2 图像

概述

产品名称 重组人FEN1蛋白
 蛋白长度 Full length protein

描述

性质 Recombinant
 来源 Escherichia coli

氨基酸序列

种属 Human
 序列 MGIIQGLAKLI ADVAPSAIRE NDIKSYFGRK
 VAIDASMSIY QFLIAVRQGG DVLQNEEGET
 TSHLMGMFYR TIRMMENGIK PVYVFDGKPP
 QLKSGELAKR SERRAEAEKQ LQQAQAAGAE
 QEVEKFTKRL VKVTKQHNDK CKHLLSLMGI
 PYLDAPSEAE ASCAALVKAG KVYAAATEDM
 DCLTFGSPVL MRHLTASEAK KLPIQEFHLS
 RILQELGLNQ EQFVDLCILL GSDYCESIRG
 IGPKRAVDLI QKHKSIEEIV RRLDPNKYPV
 PENWLHKEAH QLFLEPEVLD PESVELKWSE
 PNEEELIKFM CGEKQFSEER IRSGVKRLSK
 SRQGSTQGRL DDFFKVTGSL SSAKRKEPEP
 KGSTKKKAKT GAAGKFKRGK

技术指标

Our [Abpromise guarantee](#) covers the use of **ab95382** in the following tested applications.

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

应用 Mass Spectrometry
 SDS-PAGE
 Western blot

纯度 > 90 % SDS-PAGE.
 ab95382 is purified using conventional chromatography techniques.

形式 Liquid

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Preservative: None

Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0

常规信息

功能

Structure-specific nuclease with 5'-flap endonuclease and 5'-3' exonuclease activities involved in DNA replication and repair. During DNA replication, cleaves the 5'-overhanging flap structure that is generated by displacement synthesis when DNA polymerase encounters the 5'-end of a downstream Okazaki fragment. It enters the flap from the 5'-end and then tracks to cleave the flap base, leaving a nick for ligation. Also involved in the long patch base excision repair (LP-BER) pathway, by cleaving within the apurinic/aprimidinic (AP) site-terminated flap. Acts as a genome stabilization factor that prevents flaps from equilibrating into structures that lead to duplications and deletions. Also possesses 5'-3' exonuclease activity on nicked or gapped double-stranded DNA, and exhibits RNase H activity. Also involved in replication and repair of rDNA and in repairing mitochondrial DNA.

序列相似性

Belongs to the XPG/RAD2 endonuclease family. FEN1 subfamily.

翻译后修饰

Acetylated by EP300. Acetylation inhibits both endonuclease and exonuclease activity.

Acetylation also reduces DNA-binding activity but does not affect interaction with PCNA or EP300.

Phosphorylation upon DNA damage induces relocalization to the nuclear plasma.

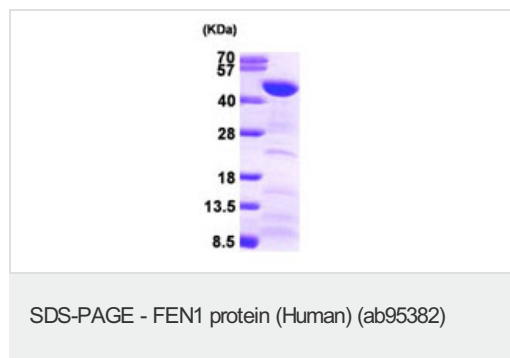
Phosphorylation at Ser-187 by CDK2 occurs during late S-phase and results in dissociation from PCNA.

Methylation at Arg-192 by PRMT5 impedes Ser-187 phosphorylation and increases interaction with PCNA.

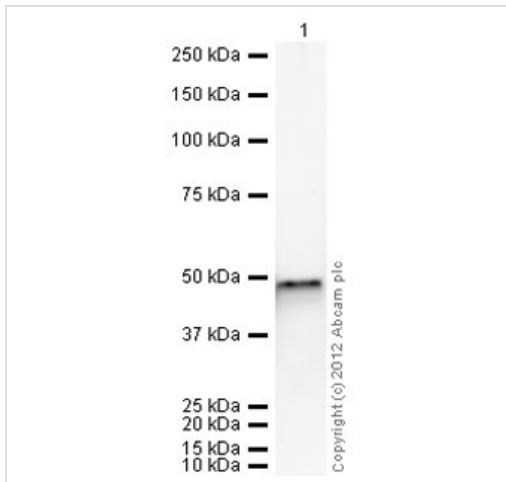
细胞定位

Nucleus > nucleolus. Nucleus > nucleoplasm. Mitochondrion. Resides mostly in the nucleoli and relocalizes to the nucleoplasm upon DNA damage.

图片



15% SDS-PAGE analysis of 3µg ab95382.



Western blot - Anti-FEN1 antibody (

[ab70815](#)

)

Anti-FEN1 antibody ([ab70815](#)) at 1 µg/ml +
Recombinant Human FEN1 protein ([ab95382](#))
at 0.001 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed
([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 43 kDa

Exposure time: 150 seconds

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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