

## 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**

```

MGIQGLAKLI ADVAPSAIRE NDIKSYFGRK
VAIDASMSIY QFLIAVRQGG DVLQNEEGET
TSHLMGMFYR TIRMMENGIK PVYVFDGKPP
QLKSGELAKR SERRAEAEKQ LQQAQAAGAE
QEVEKFTKRL VKVTKQHND ECKHLLSLMGI
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.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol

## 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/apyrimidinic (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.

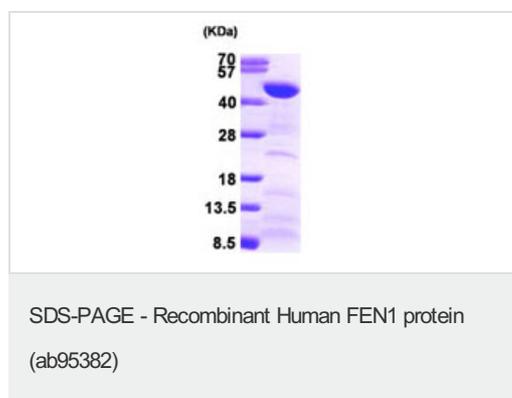
Phosphorylation at Ser-187 by CDK2 occurs during late S-phase and results in dissociation from PCNA.

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 - Recombinant Human FEN1 protein  
(ab95382)

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors