

**EPX263Ge51 1mg**  
**Eukaryotic Proteinase K (PROK)**  
**Organism Species: *Pan-species (General)***  
***Instruction manual***

FOR RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

---

13th Edition (Revised in Aug, 2023)

**[ PROPERTIES ]**

**Source:** Eukaryotic expression

**Host:** Yeast

**Residues:** Ala16~Ala384

**Tags:** N-terminal His Tag

**Subcellular Location:** Secreted

**Purity:** > 95%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 5% Trehalose .

**Original Concentration:** 200µg/mL

**Applications:** Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted isoelectric point:** 7.1

**Predicted Molecular Mass:** 40.6kDa

**Accurate Molecular Mass:** 30kDa as determined by SDS-PAGE reducing conditions.

**Phenomenon explanation:**

The possible reasons that the actual band size differs from the predicted are as follows:

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.
3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.

**[ USAGE ]**

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

**[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[ **SEQUENCE** ]

```

          A P A V E   Q R S E A A P L I E   A R G E M V A N K Y   I V K F K E G S A L
S A L D A A M E K I   S G K P D H V Y K N   V F S G F A A T L D   E N M V R V L R A H   P D V E Y I E Q D A
V V T I N A A Q T N   A P W G L A R I S S   T S P G T S T Y Y Y   D E S A G Q G S C V   Y V I D T G I E A S
H P E F E G R A Q M   V K T Y Y Y S S R D   G N G H G T H C A G   T V G S R T Y G V A   K K T Q L F G V K V
L D D N G S G Q Y S   T I I A G M D F V A   S D K N N R N C P K   G V V A S L S L G G   G Y S S S V N S A A
A R L Q S S G V M V   A V A A G N N N A D   A R N Y S P A S E P   S V C T V G A S D R   Y D R R S S F S N Y
G S V L D I F G P G   T S I L S T W I G G   S T R S I S G T S M   A T P H V A G L A A   Y L M T L G K T T A
A S A C R Y I A D T   A N K G D L S N I P   F G T V N L L A Y N   N Y Q A
    
```

[ **IDENTIFICATION** ]

©AATTCCTCCGCGTGGAGTGGTTCGAGACCCCTCCCTCATTTGGGGACGGGTGGAGTGGTGGAGCAGGATATGTTAGTTCAGGGGGTTCGGCTTGTCTGGTGGATGGCCATATGGAAATCTCGCCAGCGTGTGATGGTGGAGATGTTTTTTCGGTTTCGGCCCTGGAGCGAGTGGTCCGGTTTTCGGTCCCTCCCGAGTGGATTC

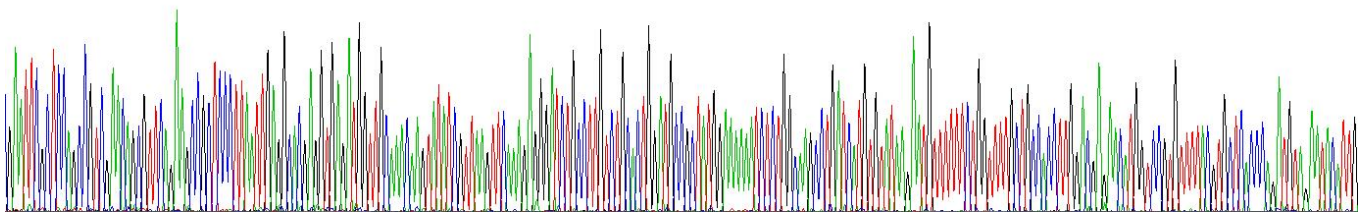


Figure . Gene Sequencing (extract)

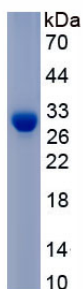


Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.