

RPF822Hu01 50µg

Recombinant Phosphatase And Tensin Homolog (PTEN)

Organism Species: *Homo sapiens (Human)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

[PROPERTIES]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Thr2~Val403

Tags: N-terminal His Tag

Subcellular Location: Nucleus, Secreted, Cytoplasm

Purity: > 90%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

Original Concentration: 100µg/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: 6.1

Predicted Molecular Mass: 48.6kDa

Accurate Molecular Mass: 55kDa 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 affect 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**]

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

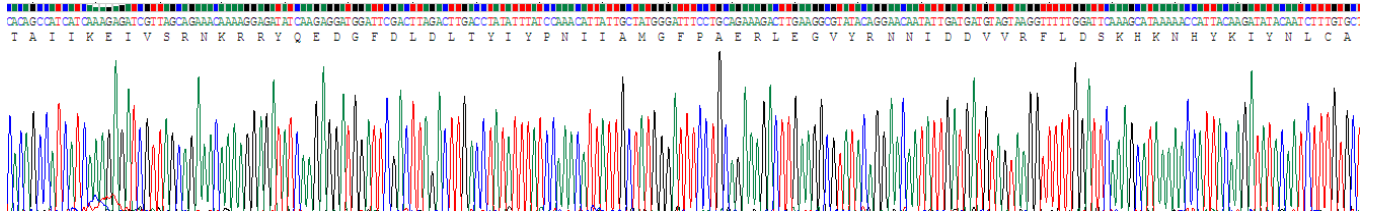


Figure. Gene Sequencing (Extract)

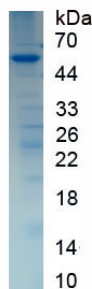


Figure. SDS-PAGE

[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.