

RPA143Ra02 1

Recombinant Vascular Endothelial Growth Factor A (VEGFA)

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)



## [PROPERTIES]

Source: Prokaryotic expression

Host: E.coli

Residues: Ala27~Arg214

Tags: N-terminal His Tag

Subcellular Location: Secreted

**Purity:** > 80%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT,

0.01% SKL, 5% Trehalose and Proclin300.

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: 9.3

Predicted Molecular Mass: 25.8kDa

Accurate Molecular Mass: 29kDa 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 20mM Tris, 150mM NaCl (pH8.0) 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 ]

```
APTT EGEQKAHEVV KFMDVYQRSY
CRPIETLVDI FQEYPDEIEY IFKPSCVPLM RCAGCCNDEA LECVPTSESN
VTMQIMRIKP HQSQHIGEMS FLQHSRCECR PKKDRTKPEK KSVRGKGKGQ
KRKRKKSRFK SWSVHCEPCS ERRKHLFVQD PQTCKCSCKN TDSRCKARQL
ELNERTCRCD KPRR
```

### [ IDENTIFICATION ]

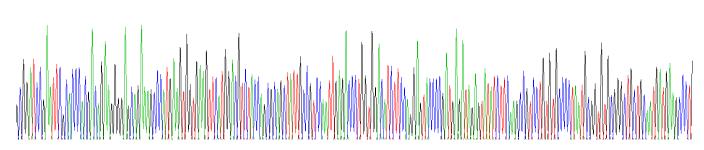


Figure . Gene Sequencing (extract)

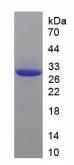




Figure. SDS-PAGE

# [ 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.