

RPA677Ra07 50µg Recombinant Coagulation Factor XII (F12) Organism Species: *Rattus norvegicus (Rat) Instruction manual*

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

Coud-Clone Corp.

[PROPERTIES]

Source: Prokaryotic expression Host: E.coli Residues: Ala20~Arg353 Tags: Two N-terminal Tags, His-tag and SUMO-tag Subcellular Location: Secreted **Purity:** > 90% Traits: Freeze-dried powder Buffer formulation: PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 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: 8.4 Predicted Molecular Mass: 51.5kDa 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 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. [<u>USAGE</u>]

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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A PPWKSKEFKD GAGDPSVVLT VDGKLCHFPF
QYHRRLYHKC IHKGQPGSRP WCATTPNFDE DQQWGYCLEP KKVKDHCSKH
SPCHKGGTCV NTPNGPHCLC PEHLTGKHCQ REKCFESQLL KFFHENEIWF
RTGPGGVARC QCKGPQAVCK LLTSQVCRVN PCLNGGTCLL VEDHRLCHCP
AGYAGPFCDL DLKATCYEDR GLSYRGQAKT TLSGAPCQRW ASEATYRNMT
ETQALSWGLG HHAFCRNPDN DTRPWCYVWS GDRLSWDYCD LEQCQMPTLT
SPVSPESHDM LKPRPPILQM PQFPSLSDAL DNSTRNQNVV SRTSTVVCGQ
RFR
```

[IDENTIFICATION]

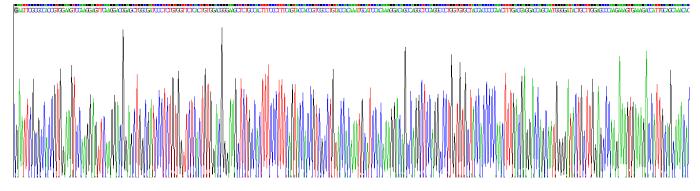


Figure . Gene Sequencing (extract)

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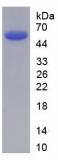


Figure. SDS-PAGE

[<u>IMPORTANT NOTE</u>]

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.