RPA834Ra01 1mg

Recombinant Coagulation Factor X (F10)

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: Gly21~Tyr482

Tags: N-terminal His Tag

Subcellular Location: Secreted

Purity: > 95%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.05% SKL, 5% Trehalose.

Original Concentration: 450μg/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: 5.1

Predicted Molecular Mass: 55.8kDa

Accurate Molecular Mass: 70kDa 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 2-8ºC for one month.

Aliquot and store at -80ºC 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]

GRSVFINRER ANNVLQRIRR ANSFFEEIKK
GNLERECVEE ICSFEEAREV FEDNEKTTEF WNKYEDGDQC ESSPCQNQGE
CRDGLGSYTC TCTEGFEGKN CELFVRKLCS LDNGDCDQFC REEQNSVVCS
CAKGYFLGND GKSCLSTAPF PCGKTNKGRA KRSVALNTSN SEPDPEDLMP
DADILYPTES PSELLNLNKT EPEANSDDVI RIVGGQECKR GECPWQALLF
SDEETDGFCG GTILNEFYIL TAAHCLHQAK RFKVRVGDLN TEQEDGGEMV
HEVDMIIKHN KFQRDTYDFD IAMLRLKTPI TFRENVAPAC LPQKDWAEAT
LMTQKTGIVS GFGRTHEKGR QSKVLKMMEV PYVDRNTCRL STSFSITQNM
FCAGYDAKQE DACQGDSGGP HVTRFKDTYF VTGIVSWGEG CARKGKYGIY
TKVTAFLKWI DRSMKARVGP TSETPRLTHP PY

[IDENTIFICATION]

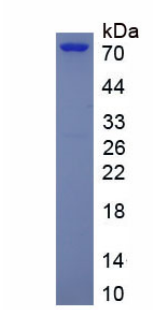

Figure. SDS-PAGE

[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.