EPA677Mu61 100µg

Eukaryotic Coagulation Factor XII (F12)

Organism Species: *Mus musculus (Mouse)*

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Eukaryotic expression

Host: 293F Cell

Residues: Ala20~Ser597

Tags: N-terminal His Tag

Subcellular Location: Secreted

Purity: > 95%

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: 6.9

Predicted Molecular Mass: 65.3kDa

Accurate Molecular Mass: 110kDa 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 2-8ºC 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]

A PPWKDSKKFK DAPDGPTVVL TVDGRLCHFP
FQYHRQLHHK CIHKRRPGSR PWCATTPNFD EDQQWGYCLE PKKVKDHCSK
HNPCHKGGTC INTPNGPHCL CPEHLTGKHC QKEKCFEPQL LKFFHENELW
FRTGPGGVAR CECKGSEAHC KPVASQACSI NPCLNGGSCL LVEDHPLCRC
PTGYTGYFCD LDLWATCYEG RGLSYRGQAG TTQSGAPCQR WTVEATYRNM
TEKQALSWGL GHHAFCRNPD NDTRPWCFVW SGDRLSWDYC GLEQCQTPTF
APLVVPESQE ESPSQAPSLS HAPNDSTDHQ TSLSKTNTMG CGQRFRKGLS
SFMRVVGGLV ALPGSHPYIA ALYWGNNFCA GSLIAPCWVL TAAHCLQNRP
APEELTVVLG QDRHNQSCEW CQTLAVRSYR LHEGFSSITY QHDLALLRLQ
ESKTNSCAIL SPHVQPVCLP SGAAPPSETV LCEVAGWGHQ FEGAEEYSTF
LQEAQVPFIA LDRCSNSNVH GDAILPGMLC AGFLEGGTDA CQGDSGGPLV
CEEGTAEHQL TLRGVISWGS GCGDRNKPGV YTDVANYLAW IQKHIAS

[IDENTIFICATION]

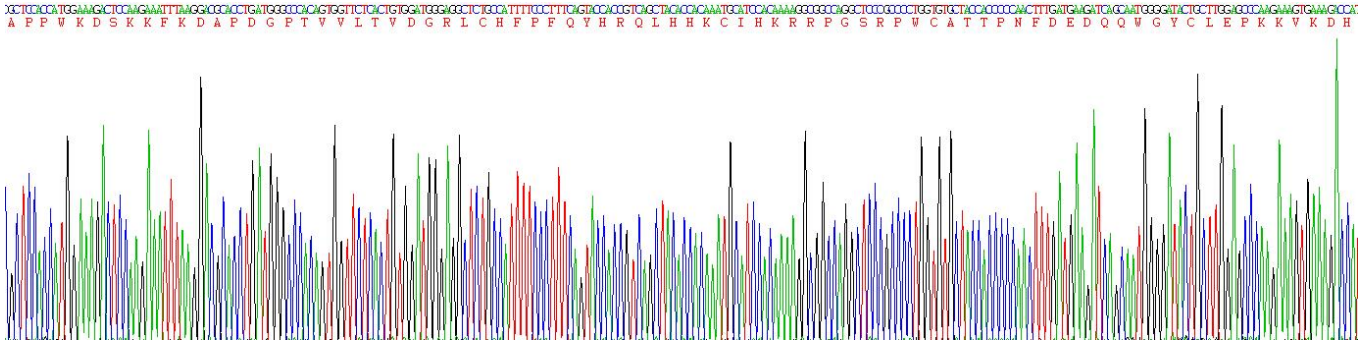

Figure. Gene Sequencing (Extract)

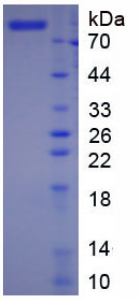

Figure. SDS-PAGE

[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.