

EPC158Hu61 10μg Eukaryotic Collagen Type XII (COL12) Organism Species: *Homo sapiens (Human) Instruction manual*

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

Cond-Clone Corp.

[PROPERTIES]

Source: Eukaryotic expression Host: 293F cell Residues: Pro2802~Gly3063 Tags: N-terminal His Tag Subcellular Location: Extracellular matrix Purity: > 95% Traits: Freeze-dried powder Buffer formulation: PBS, pH7.4, containing 5% Trehalose . 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: 10.4 Predicted Molecular Mass: 27.1kDa

Accurate Molecular Mass: 45&50&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 2-8°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]

PGEQGRQGM KGDAGEPGLP GRTGTPGLPG PPGPMGPPGD RGFTGKDGAM GPRGPPGPPG SPGSPGVTGP SGKPGKPGDH GRPGPSGLKG EKGDRGDIAS QNMMRAVARQ VCEQLISGQM NRFNQMLNQI PNDYQSSRNQ PGPPGPPGPP GSAGARGEPG PGGRPGFPGT PGMQGPPGER GLPGEKGERG TGSSGPRGLP GPPGPQGESR TGPPGSTGSR GPPGPPGRPG NSGIRGPPGP PGYCDSSQCA SIPYNGQGYP GSG

[IDENTIFICATION]

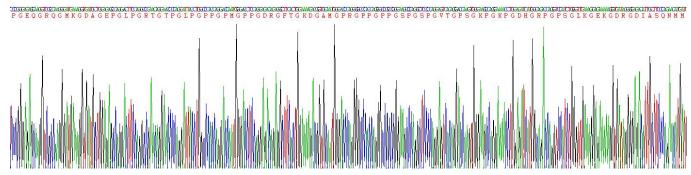


Figure. Gene Sequencing (Extract)

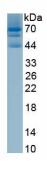


Figure. SDS-PAGE



[<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.