

EPA028Hu61 100ug

**Eukaryotic Erythropoietin (EPO)** 

Organism Species: Homo sapiens (Human)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

11th Edition (Revised in May, 2016)

#### [PROPERTIES]

**Source:** Eukaryotic expression.

Host: 293F cell

Residues: Ala28~Arg193
Tags: N-terminal His Tag

Homology: Mouse 78%, rat 80% Tissue Specificity: Liver, kidney. Subcellular Location: Secreted.

**Purity: >95%** 

**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

Traits: Freeze-dried powder

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

1mM DTT, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL Predicted isoelectric point: 8.8 Predicted Molecular Mass: 20.0kDa

Accurate Molecular Mass: 27-41kDa as determined by SDS-PAGE reducing

conditions.

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays;

Purification; Amine Reactive Labeling.

(May be suitable for use in other assays to be determined by the end user.)



#### 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]

APP RLICDSRVLE RYLLEAKEAE
NITTGCAEHC SLNENITVPD TKVNFYAWKR MEVGQQAVEV WQGLALLSEA
VLRGQALLVN SSQPWEPLQL HVDKAVSGLR SLTTLLRALG AQKEAISPPD
AASAAPLRTI TADTFRKLFR VYSNFLRGKL KLYTGEACRT GDR

# [ IDENTIFICATION ]

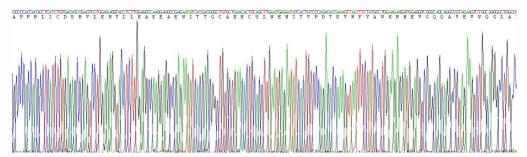


Figure 1. Gene Sequencing (extract)

kDa 70
44
33
26
22
18
14
10

Figure 2. SDS-PAGE