

RPB871Hu01 10µg

#### Recombinant Xeroderma Pigmentosum, Complementation Group G (XPG)

**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:** Prokaryotic expression.

Host: E. coli

Residues: Leu778~Ala986 Tags: N-terminal His-Tag Tissue Specificity: Eye.

Subcellular Location: Nucleus.

**Purity: >92%** 

Traits: Freeze-dried powder

Buffer formulation: 100mM NaHCO<sub>3</sub>, 500mM NaCl, pH8.3, containing 1mM

EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive

Labeling.

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

Predicted isoelectric point: 6.9

Predicted Molecular Mass: 27.8kDa

Accurate Molecular Mass: 31kDa 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 100mM NaHCO<sub>3</sub>, 500mM NaCl (pH8.3) 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]

LFG IPYIQAPMEA EAQCAILDLT
DQTSGTITDD SDIWLFGARH VYRNFFNKNK FVEYYQYVDF HNQLGLDRNK
LINLAYLLGS DYTEGIPTVG CVTAMEILNE FPGHGLEPLL KFSEWWHEAQ
KNPKIRPNPH DTKVKKKLRT LQLTPGFPNP AVAEAYLKPV VDDSKGSFLW
GKPDLDKIRE FCQRYFGWNR TKTDESLFPV LKQLDA

## [IDENTIFICATION]

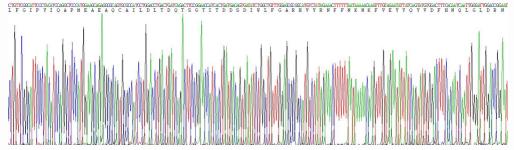


Figure 1. Gene Sequencing (Extract)

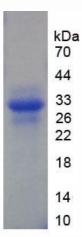


Figure 2. SDS-PAGE