**RPB162Hu01 10μg**

**Recombinant Thioredoxin-interacting Protein (TXNIP)**

**Organism Species: *Homo sapiens (Human)***

***Instruction manual***

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

13th Edition (Revised in Aug, 2023)

## [ PROPERTIES ]

**Source:** Prokaryotic expression

**Host:** *E.coli*

**Residues:** Ile32~Ala367

**Tags:** N-terminal His Tag

**Subcellular Location:** Cytoplasm

**Purity:** > 95%

**Traits:** Freeze-dried powder

**Buffer formulation:** 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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:** 7.6

**Predicted Molecular Mass:** 41.1kDa

**Accurate Molecular Mass:** 46kDa 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.

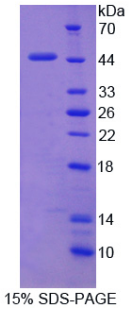
Aliquot and store at -80ºC for 12 months.

**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 ]

IVEVCEVTR VKAVRILACG
VAKVLWMQGS QQCKQTSEYL RYEDTLLLED QPTGENEMVI MRPGNKYEYK
FGFELPQGPL GTSFKGKYGC VDYWVKAFLD RPSQPTQETK KNFEVVDLVD
VNTPDLMAPV SAKKEKKVSC MFIPDGRVSV SARIDRKGFC EGDEISIHAD
FENTCSRIVV PKAAIVARHT YLANGQTKVL TQKLSSVRGN HIISGTCASW
RGKSLRVQKI RPSILGCNIL RVEYSLLIYV SVPGSKKVIL DLPLVIGSRS
GLSSRTSSMA SRTSSEMSWV DLNIPDTPEA PPCYMDVIPE DHRLESPTTP
LLDDMDGSQD SPIFMYA

## [ IDENTIFICATION ]



15% 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.