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YBC241Mu01 50µg

Recombinant Telomerase Reverse Transcriptase (TERT)

Organism Species: Mus musculus (Mouse)

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: Gln642~Lys974

Tags: Two N-terminal Tags, His-tag and GST-tag

Tissue Specificity: Intestine, Liver, Testis, Heart.

Subcellular Location: Nucleus. Nucleolus. PML body. Nucleoplasm.

Chromosome, telomere. Cytoplasm.

Purity: >95%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.

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

Predicted isoelectric point: 7.1

Predicted Molecular Mass: 67.4kDa

Accurate Molecular Mass: 60kDa as determined by SDS-PAGE reducing conditions.

Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:



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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]

QHF IQRLKI
LFSMLNYERT KHPHLMGSSV LGMNDIYRTW RAFVLRVRAL DQTPRMVFK
ADVTGAYDAI PQGKLVEVVA NMIRHSESTY CIRQYAVVRR DSQGQVHKSF
RRQVTTLSDL QPYMGQFLKH LQSDASALR NSVVIEQSI MNESSSLFD
FFLHFLRHSV VKIGDRCYTQ CQGIPQGSSL STLLCSLCFG DMENKLFAEV
QRDGLLLRFV DDFLLVTPHL DQAKTFLSTL VHGVPEYGCM INLQKTVVNF
PVEPGTLGGA APYQLPAHCL FPWCGLLLDT QTLEVFCDYS GYAQTSIKTS
LTFQSVFKAG KTM RNKLLSV LRLK



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[IDENTIFICATION]

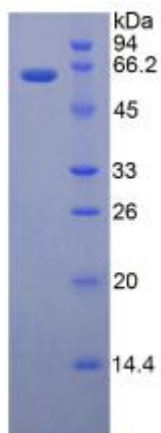


Figure 1 SDS-PAGE