RPB983Hu01 1mg
Recombinant Tau Protein (MAPT)
Organism Species: Homo sapiens (Human)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)
[ PROPERTIES ]

Source: Prokaryotic expression

Host: *E.coli*

Residues: Lys130~Thr386

Tags: N-terminal His Tag

Subcellular Location: Membrane, Cytoplasm

Purity: > 97%

Traits: Freeze-dried powder

Buffer formulation: PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Original Concentration: 1000µg/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: 5.6

Predicted Molecular Mass: 30.6kDa

Accurate Molecular Mass: 38kDa 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**

K VVQEGFLREP GPPGLSHQLM
SGMPGAPLLP EGPREATQP SGTPEDTEG GRIAPELLKH QLLGDHLQEG
PPLKGAGGKE RPGSKEVVDE DRDVEDSPQ DSPPSASPA QDGRPPQTAA
REATSIPGFP AEGAIPLPVDFLSKVSTEIP ASEPDGPSVG RAKGQDAPLE
FTFHVETPNI VQKEQAHSEE HLGRAAFPGA PGEPEARGP SLGEDTKEAD
LPEPSEKQPA AAPRGKPVSR VPKLARVMS KSKDGT

**IDENTIFICATION**

![Gene Sequencing](extract)

**Figure.** Gene Sequencing (extract)

![SDS-PAGE](extract)

**Figure.** 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.