

**RPB983Mu01 50µg**  
**Recombinant Microtubule Associated Protein Tau (MAPt)**  
**Organism Species: Mus musculus (Mouse)**  
***Instruction manual***

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

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12th Edition (Revised in Aug, 2016)

## [ **PROPERTIES** ]

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** Ala92~Val400

**Tags:** N-terminal His-Tag

**Tissue Specificity:** Liver, Kidney, Brain.

**Subcellular Location:** Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoskeleton. Cell projection, axon.

**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; Purification; Amine Reactive Labeling.

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

**Predicted isoelectric point:** 10.1

**Predicted Molecular Mass:** 36.0kDa

**Accurate Molecular Mass:** 44kDa 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 2-8°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 ]

```

                                                                    AEEAGIGDT
PNQEDQAAGH VTQARVASKD RTGNDEKKAK GADGKTGAKI ATPRGAASPA
QKGTSNATRI PAKTTPSPKT PPGSGEPPKS GERSGYSSPG SPGTPGSRSR
TPSLPTPPTR EPKKVAVVRT PPKSPSASKS RLQTAPVPMP DLKNVRSKIG
STENLKHQPG GGKVQIINKK LDLSNVQSKC GSKDNIKHVP GGGSVQIVYK
PVDLSKVTSK CGSLGNIHHK PGGGQVEVKS EKLDKDRVQ SKIGSLDNIT
HVPGGGNKKI ETHKLTREN AKAKTDHGAE IVYKSPVVSQ DTSPRHLSNV
  
```

## [ IDENTIFICATION ]

TGCTGAGAAGCAGGCATGAGACACCCCGAACCCAGAGGCCAAGCCGCTGGGCATGTGACTGAGCTCTGCTGCTGGCGGCAAGACAGGACAGAAATGACGAGAGAGAGCCAAAGGCGCTGATGGCAAAACCAGGACGAGATCCACACCTGGGGAGAGCCCTCTCCGCGCCGAGAGGGCACGTCGAAAGCCAGGATCTC
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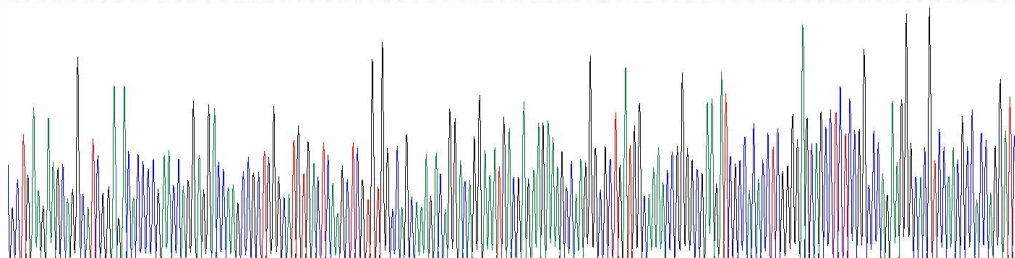
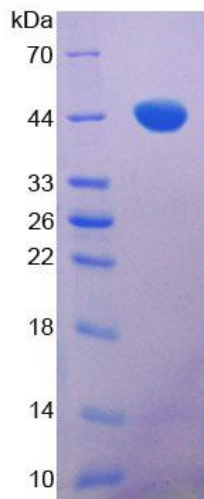


Figure 1. Gene Sequencing (Extract)



**Figure 2. SDS-PAGE**