



Recombinant Rat Microtubule-associated protein tau (Mapt)

Product Code	CSB-YP013481RA
Relevance	Promotes microtubule assbly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma mbrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.
Abbreviation	Recombinant Rat Mapt protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P19332
Alias	Neurofibrillary tangle protein;Paired helical filament-tau ;PHF-tau
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AEPRQEFDTMEDQAGDYTMLQDQEGDMDHGLKESPPQPPADDGSEEPGSE TSDAKSTPTAEDVTAPLVEERAPDKQATAQSHTIPEGTTAEEAGIGDTPNME DQAAGHVTQEPQKVEIFSQSLLVEPGRREGQAPDSGISDWITHQQVPSMSG A PLPPQGLREATHQPLGTRPEDVERSHPASELLWQESPQKEAWGKDRLGSEE E VDEEDITMDESSQESPPSQASLAPGTATPQARSVSASGVSGETTSIPGFPAEG S IPLPADFFSKVSAETQASPPEGPGTGPSEEGHEAAPEFTFHVEIKASAPKEQ D LEGATVVGAPAEQKARGPSVGKGTKEASLLEPTDKQPAAGLPGRPVSRVP Q LKARVAGVSKDRTGNDEKKAKTSTPSCAKTPSNRPCLSPTRPTPGSSDPLIK P SSPAVCPEPATSPKYVSSVTPRNGSPGTKQMKLGADGKTGAKIATPRGAA T PGQKGTSNATRIPAKTTPSPKTPPGSGEPPKSGERSGYSSPGSPGTPGSRS R TPSLPTPTREP KKVAVVRTPPKSPSASKSRLQTAPVPM PDLKNVRSKIGST E NLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVHIVYK PVDLS K VTSKCGSLGNIHHKPGGGQVEVKSEKLD F KDRVQSKIGSLDNITHVPGGGNK K IETHKLTFRENAKAKTDHGAEIVYKSPVVS GDTSPRHL SNVSSTGSIDMVDSP Q LATLADEV SASLAKQGL
Research Area	Others
Source	Yeast
Target Names	Mapt
Protein Names	Recommended name: Microtubule-associated protein tau Alternative name(s):



Neurofibrillary tangle protein Paired helical filament-tau Short name= PHF-tau

Expression Region 2-752aa

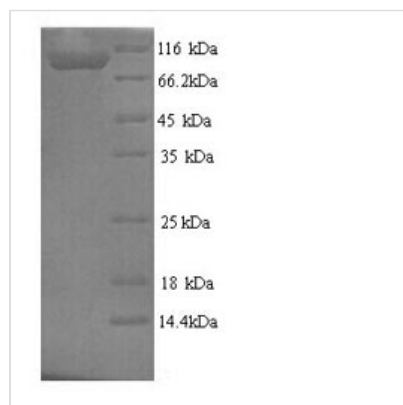
Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info N-terminal 6xHis-tagged

Mol. Weight 80.4kDa

Protein Length Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.