



[Go to Product page](#)

Datasheet for ABIN7536499  
**MAPT Protein (Fc Tag)**

### Overview

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Quantity:                     | 100 µg                                     |
| Target:                       | MAPT                                       |
| Origin:                       | Human                                      |
| Source:                       | HEK-293 Cells                              |
| Protein Type:                 | Recombinant                                |
| Purification tag / Conjugate: | This MAPT protein is labelled with Fc Tag. |

### Product Details

|                  |                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Recombinant Human Microtubule-associated protein tau/MAPT Protein                                                                                                   |
| Sequence:        | QAAAQPHTEI PEGTTAEEAG IGDTPSLEDE AAGHVTQARM VSKSKDGTGS DDKKAKGADG<br>KTKIATPRGA APPGQKQGAN ATRIPAKTPP APKTPPSSGE PPKSGDRSGY SSPGSPGTPG<br>SRSRTPSLPT PPTREPKKVA VVR |
| Specificity:     | Gln88-Arg230                                                                                                                                                        |
| Purity:          | > 97 % by SDS-PAGE.                                                                                                                                                 |
| Sterility:       | 0.22 µm filtered                                                                                                                                                    |
| Endotoxin Level: | < 0.01EU/µg                                                                                                                                                         |

### Target Details

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| Target:           | MAPT                                                                      |
| Alternative Name: | Microtubule-associated protein tau/MAPT ( <a href="#">MAPT Products</a> ) |

## Target Details

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**Background:** Description: Tau proteins are proteins that stabilize microtubules. They are abundant in neurons of the central nervous system and are less common elsewhere, but are also expressed at very low levels in CNS astrocytes and oligodendrocytes. When tau proteins are defective, and no longer stabilize microtubules properly, they can result in dementias such as Alzheimer's disease. Tau protein is a highly soluble microtubule-associated protein (MAP). In humans, these proteins are mostly found in neurons compared to non-neuronal cells. One of tau's main functions is to modulate the stability of axonal microtubules. Other nervous system MAPs may perform similar functions, as suggested by tau knockout mice, who did not show abnormalities in brain development - possibly because of compensation in tau deficiency by other MAPs.

Name: TAU, MSTD, PPND, DDPAC, MAPTL, MTBT1, MTBT2, tau-40, FTDP-17, PPP1R103, Tau-PHF6

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**Gene ID:** 4137

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**UniProt:** [P10636-8](#)

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**Pathways:** [MAPK Signaling](#), [Microtubule Dynamics](#), [M Phase](#), [Regulation of Cell Size](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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**Concentration:** 0.71 mg/mL

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**Buffer:** Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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**Storage:** -20 °C, -80 °C

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**Storage Comment:** Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.