

## Human Tau pT181 Protein

|                           |   |       |      |
|---------------------------|---|-------|------|
| Cat.#:                    | TD-P10104   | Size: | 50ug |
| Protein Name:             | TAU pT181   |       |      |
| Synonym:                  | DDPAC,FTDP-17,MAPT,MSTD,MTBT1,Tau,PHF-tau,TAU   |       |      |
| Uniprot No.:              | P10636-8  |       |      |
| Expression System:        | E. Coli   |       |      |
| Compound Identity:        | 6xHis at C-terminus   |       |      |
| Full Length or Truncated: | Full length   |       |      |
| Molecular Weight:         | 48.3 kDa  |       |      |
| Modification              | Phosphorylation   |       |      |
| Form:                     | freeze-dried powder   |       |      |
| Storage:                  | 2 days when stored at 2 to 8 ° C after thawing<br>Up to 12 months when aliquoted and stored at -20 to -80 ° C |       |      |
| Stability:                | ≥6 months   |       |      |
| Purity:                   | ≥80% estimated by SDS-PAGE  |       |      |
| Supplied in:              | 0.15 M Phosphate buffered saline, pH 7.4  |       |      |

### Background

Tau is a microtubule-associated protein, which encodes by the MAPT gene that located on chromosome 17q21. Tau Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. Hyperphosphorylation of the tau protein (tau inclusions, pTau) can result in the self-assembly of tangles of paired helical filaments and straight filaments, which are involved in the pathogenesis of Alzheimers disease, frontotemporal dementia, and other tauopathies.