

Datasheet for ABIN6700673

## MAPT Protein (Ser352Leu-Mutant)



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### Overview

|                          |                            |
|--------------------------|----------------------------|
| Quantity:                | 20 µg                      |
| Target:                  | MAPT                       |
| Protein Characteristics: | Ser352Leu-Mutant           |
| Origin:                  | Human                      |
| Source:                  | Escherichia coli (E. coli) |
| Protein Type:            | Recombinant                |
| Application:             | Western Blotting (WB)      |

### Product Details

|               |  |
|---------------|--|
| Purpose:      | Tau-441 (S352L) recombinant protein  |
| Purification: | Recombinant human tag-free Tau-441 (S352L) was expressed in E. coli cells. The purity was determined to be >90% by densitometry. |
| Purity:       | >90%   |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | MAPT   |
| Alternative Name: | MAPT ( <a href="#">MAPT Products</a> )   |
| Background:       | <p>Synonyms: Tau-F, (N2R4), Tau-4, MAPT, MSTD, PPND, DDPAC, MAPTL, MTBT1, MTBT2, FTDP-17, FLJ31424, MGC138549, Microtubule-associated protein tau</p> <p>Background: Tau-441 or Tau-F is a member of the Tau family of proteins which function to stabilize the microtubules by binding to them. Tau proteins are subject to phosphorylation and</p> |

## Target Details

this phenomenon regulates the association of the Tau protein with the microtubules (1). Deposits of Alzheimer's disease AD-associated proteins, such as hyperphosphorylated Tau, as well as other shared misfolded proteins, such as,  $\beta$ -amyloid precursor protein ( $\beta$ APP), ubiquitin, and various chaperones and protein kinases are thought to play a pathologic role in the cognitive decline and muscular failure. Malfunctioning of Tau proteins is associated with microtubules disintegration and collapsing of the neuronal transport system (2). Tau-441 Protein is ideal for investigators involved in Signaling Proteins, Tau Proteins, Invasion/Metastasis, Neurobiology, and p38 Pathway research.

|           |   |
|-----------|---|
| UniProt:  | <a href="#">P10636-8</a>  |
| Pathways: | <a href="#">MAPK Signaling</a> , <a href="#">Microtubule Dynamics</a> , <a href="#">M Phase</a> , <a href="#">Regulation of Cell Size</a> |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | Western_Blot_Dilution: User Optimized<br>Other: Kinase Assay-User Optimized<br>Application_Note: Tau-441 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~64 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user. |
| Restrictions:      | For Research Use only  |

## Handling

|                  |  |
|------------------|--|
| Format:          | Liquid   |
| Concentration:   | 0.2 $\mu$ g/ $\mu$ L   |
| Buffer:          | Tau-441 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.   |
| Storage:         | -80 $^{\circ}$ C   |
| Storage Comment: | Store product at -70 $^{\circ}$ C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |
| Expiry Date:     | 12 months  |