

## Datasheet for ABIN6700659 MAPT Protein (Pro301Ser-Mutant)

Publication



## Overview

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20 µg
MAPT
Pro301Ser-Mutant
Human
Escherichia coli (E. coli)
Recombinant
Western Blotting (WB)
Tau-441 (P301S) recombinant protein
Recombinant human tag-free Tau-441 (P301S) was expressed in E. coli cells. The purity was determined to be >90% by densitometry.
>90%
MAPT
MAPT (MAPT Products)
Synonyms: Tau-F, (N2R4), Tau-4, MAPT, MSTD, PPND, DDPAC, MAPTL, MTBT1, MTBT2, FTDP- 17, FLJ31424, MGC138549, Microtubule-associated protein tau 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

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	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:	P10636-8
Pathways:	MAPK Signaling, Microtubule Dynamics, M Phase, Regulation of Cell Size
Application Details	

Application Notes:	Western_Blot_Dilution: User Optimized
	Other: Kinase Assay-User Optimized
	Application_Note: Tau-441 Protein is suitable for use in Western Blot and Kinase Assay. Expect
	a band approximately ~63 kDa on specific lysates or tissues. Specific conditions for reactivity
	should be optimized by the end user.
Comment:	EM
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.2 μg/μL
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 °C
Storage Comment:	Store product at -70°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

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Flach, Leu, Martinisi, Skachokova, Frank, Tolnay, Stahlberg, Winkler: "Trans-seeding of Alzheimer-related tau protein by a yeast prion." in: **Alzheimer's & dementia : the journal of the Alzheimer's Association**, Vol. 18, Issue 12, pp. 2481-2492, (2023) (PubMed).

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