

Datasheet for ABIN6700649

**MAPT Protein (Gly272Val-Mutant)**[Go to Product page](#)

## Overview

Quantity:	20 µg
Target:	MAPT
Protein Characteristics:	Gly272Val-Mutant
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB)

## Product Details

Purpose:	Tau-441 (G272V) recombinant protein
Purification:	Recombinant human tag-free Tau-441 (G272V) 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 Other: Kinase Assay-User Optimized 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