

Datasheet for ABIN6700611

MAPT Protein

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Overview

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

Product Details

Purpose:	Tau-381 recombinant protein
Purification:	Recombinant full-length human tag-free Tau-381 was expressed in E. coli cells. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	MAPT
Alternative Name:	MAPT (MAPT Products)
Background:	<p>Synonyms: Tau-B, (N1R3), MAPT, MSTD, PPND, DDPAC, MAPTL, MTBT1, MTBT2, FTDP-17, FLJ31424, MGC138549, Microtubule-associated protein tau</p> <p>Background: Tau-381 or Tau-B 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 this phenomenon regulates the association of the Tau protein with the microtubules (1).</p>

Target Details

Deposits of Alzheimer's disease AD-associated proteins, such as hyperphosphorylated Tau, as well as other shared misfolded proteins, such as, β -amyloid precursor protein (β 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-381 Protein is ideal for investigators involved in Signaling Proteins, Tau Proteins, Invasion/Metastasis, Neurobiology, and p38 Pathway research.

UniProt: [P10636-4](#)

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

Application Details

Application Notes: Application Note: Tau-381 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol. Tau-381 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~54 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Western Blot Dilution: User Optimized

Other: Kinase Assay-User Optimized

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 μ g/ μ L

Buffer: Tau-381 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