Recombinant Human microtubule-associated protein tau Protein, Tag Free, Biotin Labeled

Cat. No. MAPT-50H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human Tau (Tau-441) (GenBank Accession # AAC04279.1) was expressed and purified from E. coli and conjugated with biotin.
Species	Human
Source	E.coli
ProteinLength	1-758aa
Description	This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.
Tag	Non
Conjugation/Label	Biotin
Form	Solution
Molecular Mass	71.8 kDa (higher apparent mass in SDS-PAGE)

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Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/mL
Storage Buffer	10 mM sodium phosphate buffer (pH=7.4)
References	1. Bulic B., Neuropharmacology. 59 (2010):276-89. 2. Voss K., Mol. Neurodegen. 4 (2009):1-12. 3. Rankin CA., Mol. Neurodegen. 2 (2007):1-14. 4. Patterson KR., J. of Biol. Chem. 286 (2011):23063-76.
Conjugation	Biotin

GENE INFORMATION

Gene Name	MAPT microtubule-associated protein tau [Homo sapiens (human)]
Official Symbol	MAPT
Synonyms	MAPT; microtubule-associated protein tau; DDPAC, MAPTL; FLJ31424; FTDP 17; G protein beta1/gamma2 subunit interacting factor 1; MGC138549; microtubule associated protein tau; isoform 4; MSTD; MTBT1; MTBT2; PPND; tau; TAU; PHF-tau; paired helical filament-tau; neurofibrillary tangle protein; microtubule-associated protein tau, isoform 4; G protein beta1/gamma2 subunit-interacting factor 1; DDPAC; MAPTL; FTDP-17
Gene ID	4137
mRNA Refseq	NM_001123066

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Protein Refseq	NP_001116538
MIM	157140
UniProt ID	P10636

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