

## Product datasheet for **CF809201**

### Tau (MAPT) Mouse Monoclonal Antibody [Clone ID: OTI13B5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI13B5
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 623-758 of human MAPT(NP_058519) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	78.7 kDa
Gene Name:	microtubule associated protein tau
Database Link:	<a href="#">NP_058519</a> <a href="#">Entrez Gene 17762 Mouse</a> <a href="#">Entrez Gene 29477 Rat</a> <a href="#">Entrez Gene 4137 Human</a> <a href="#">P10636</a>



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**Background:**

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. [provided by RefSeq, Jul 2008]

**Synonyms:**

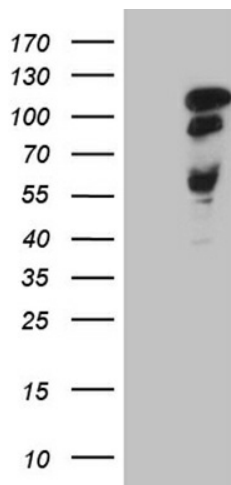
DDPAC; FTDP-17; MAPTL; MSTD; MTBT1; MTBT2; PPND; PPP1R103; TAU; tau-40

**Protein Families:**

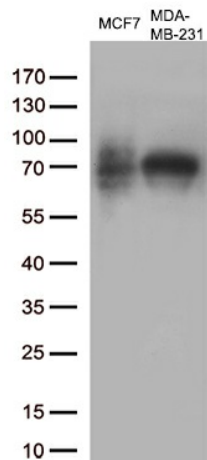
Druggable Genome

**Protein Pathways:**

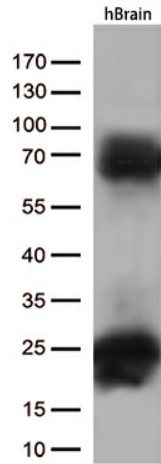
Alzheimer's disease, MAPK signaling pathway

**Product images:**


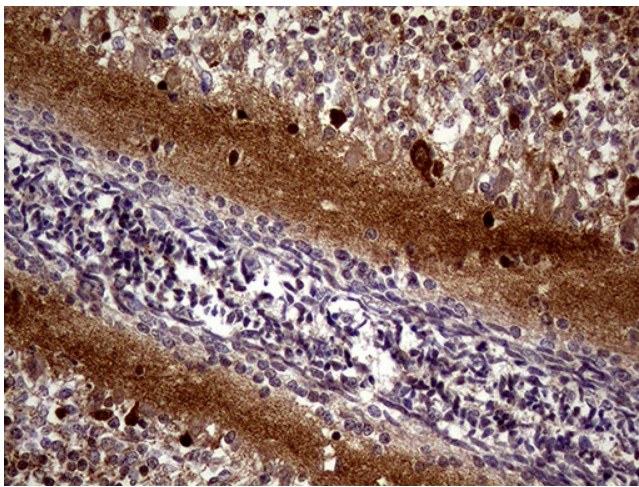
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MAPT (Cat# [RC216166], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MAPT (Cat# [TA809201])(1:2000). Positive lysates [LY429527] (100ug) and [LC429527] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 2 different cell lines by using anti-MAPT monoclonal antibody (1:500).



Western blot analysis of extracts (35ug) from human brain tissue by using anti-MAPT monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human embryonic cerebellum within the normal limits using anti-MAPT mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809201]) (1:500)