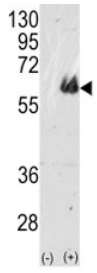
TAU Antibody / MAPT (F47898)

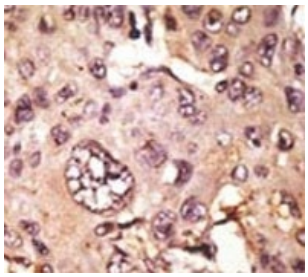
Catalog No.	Formulation	Size
F47898-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47898-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

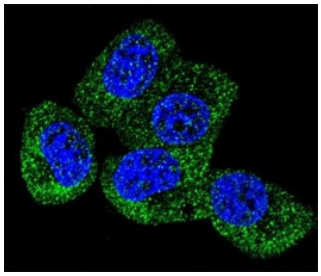
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Bovine
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P10636
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 Immunofluorescence : 1:10-1:50
Limitations	This TAU antibody is available for research use only.



Western blot analysis of TAU antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the TAU gene (2).



IHC analysis of FFPE human hepatocarcinoma tissue stained with the TAU antibody



Confocal immunofluorescent analysis of TAU antibody with MCF-7 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

TAU/MAPT promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by TAU/MAPT localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization. [UniProt]

Application Notes

Titration of the TAU antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 677-707 from the human protein was used as the immunogen for this TAU antibody.

Storage

Aliquot the TAU antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.