

## Tau

Cat.No. 314 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

### Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) (see remarks) <b>IP:</b> yes <b>ICC:</b> 1 : 200 up to 1 : 500 <b>IHC:</b> 1 : 100 <b>IHC-P/FFPE:</b> 1 : 500
Clone	248E5
Subtype	IgG2a (κ light chain)
Immunogen	Recombinant protein corresponding to AA 3 to 214 from mouse Tau (UniProt Id: P10637)
Epitop	Epitop: AA 3 to 214 from mouse Tau (UniProt Id: P10637)
Reactivity	Reacts with: rat (P19332), mouse (P10637). Weaker signal: human (P10636). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for tau.
matching control	314-0P
Remarks	<b>WB:</b> Detects the mouse protein with much greater sensitivity than the rat protein. The antibody binds phosphorylated and non-phosphorylated tau proteins.

### TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

There are two major classes of heat stable microtubule associated proteins (MAPS): MAP 2 (280 kD), and **tau** (55-65 kD). Both protein classes are involved in the regulation of microtubule polymerization in cells. Tau is a neuronal protein that mainly localizes to axons. Hyperphosphorylated tau has been shown to be a major element of paired helical filaments in Alzheimer's disease.

### Selected References SYSY Antibodies

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### Selected General References

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Proceedings of the National Academy of Sciences of the United States of America (1977) 74(6): 2437-40.

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