

Code No. 11092

**Anti-Human
Tau (Phosphorylated) (C5) Mouse IgG MoAb**Volume : 100 µg

- Introduction** : Tau protein is a microtubule-associated protein expressed in neuroaxon and has molecular weight of 50 - 70 kDa. Some Alzheimer's patients have sites where tau protein is accumulated abnormally.
This antibody reacts with phosphorylated part in amino acid sites, 386 - 406 (TDHGAEIVYKSPVSGDTSPR) of Tau protein. It does not react with the most carboxyl-terminal peptide (396 - 441) of normal human Tau protein.
- Antigen** : PHF (paired helical filament) obtained from AD brain.
- Source** : Mouse-Mouse hybridoma
(PAI x BALB/c mouse spleen cells, supernatant)
- Clone** : C5
- Subclass** : IgG₁
- Purification** : Affinity purified with Protein A
- Form** : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN₃
- How to use** : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL
- Stability** : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at -20 °C
- Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after formic acid treatment*¹ by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is 5 µg/mL, however, the concentration should be optimized by each laboratory.
*¹: rinsing by running water after formic acid treatment for 5 minutes following de-paraffin.
: This antibody can be used for western blotting in concentration of 5 µg/mL.
- Specificity** : Cross-reacts with mouse and rat.
Not recognize unphosphorylated human Tau protein.
- Reference** : 1. Hasegawa M, Watanabe A, Takio K, Suzuki M, Arai T, Titani K, Ihara Y. Characterization of two distinct monoclonal antibodies to paired helical filaments: further evidence for fetal-type phosphorylation of the tau in paired helical filaments. J Neurochem. 1993 Jun;60(6):2068-77.

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