FUJIREBIO

MONOCLONAL MOUSE ANTI-HUMAN PHF-TAU, CLONE AT-8

Code: 90206

Immunoglobulin class	IgG1 κ
Clone	AT8
Mass/vial	100 µg
Volume/vial	0.5 ml

FOR RESEARCH USE ONLY

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Presentation
This mouse monoclonal antibody to human PHF-tau is supplied in PBS, sterile filtered (0.22 µm) and without addition of preservatives.

Source
Mouse myeloma SP2/0 cells were fused with spleen cells of a Balb/c mouse immunized intraperitoneally with partially purified human PHF-tau (1, 2). This antibody has been purified from serum-free culture supernatant by protein A affinity chromatography.

Purity
The final product is more than 95% pure as determined by SDS-PAGE.

Applications
This antibody can be used for immunohistochemical staining (3), Western blot and ELISA techniques.

Specificity
This antibody recognizes PHF-tau and does not cross-react with normal tau as determined by a sandwich ELISA. Furthermore, no signal was obtained using alkaline phosphatase-treated PHF-tau as antigen, indicating that this monoclonal is directed against a phosphatase-sensitive epitope (2).
The epitope has been shown to contain the phosphorylated Ser202 and Thr205* residue (4,5).

Instructions for use
1. For immunohistochemistry: use this antibody in a concentration range of 5-10 µg/ml for the localization of PHF-tau in formalin-fixed, paraffin-embedded brain tissue.
2. For Western blot: a final concentration of 20-60 µg/ml can detect 50 ng of SDS-denaturated and β-mercaptoethanol-PHF-tau.
3. For ELISA: this antibody can be used at a concentration of 5-10 µg/ml as a capturing reagent for PHF-tau in a sandwich ELISA.

Note: The recommended concentrations are approximate values. For each application, a dose-response assay should be performed to determine the optimal concentration for use.

Storage and stability
Monoclonal mouse anti-human PHF-tau, as shipped, is stable for at least six months when stored at -20°C. Avoid multiple freeze/thaw cycles by storage in appropriate aliquots.
This antibody should be diluted with PBS or medium containing a suitable carrier protein (e.g. 0.1 to 1% BSA). Failure to add carrier protein to diluted product will result in loss of activity.

* numbering according to human tau40 (6).

References
(1) Greenberg SG, Davies P. Proc Natl Acad Sci USA 1990; 87: 5827-31.
(2) Mercken M, et al. Acta Neuropathol 1991; 84: 265-72.
(3) Braak E, et al. Acta Neuropathol 1994; 87: 554-67.
(4) Goedert M, et al. Proc Natl Acad Sci USA 1993; 90: 5066-70.
(5) Biernat J, et al. EMBO J 1992; 11: 1593-7.
(6) Goedert M, et al. Neuron 1989; 3: 519-26.