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Presentation

This mouse monoclonal antibody to human PHF-tau is supplied in PBS, pH 7.4, 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, in Western blot and ELISA techniques.

Specificity

This antibody specifically recognizes PHF-tau. No cross-reactivity with normal biopsy- or autopsy-derived tau and fetal tau has been observed (3), suggesting that AT100 detects an abnormal phosphorylation site that is unique to PHF-tau. 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 Thr212 and phosphorylated Ser214 (5)*.

Instructions for use

1. For immunohistochemistry: use this antibody in a concentration range of 1-5 µg/ml for the localization of PHF-tau in formalin-fixed, paraffin-embedded brain tissue.
2. For Western blot: a final concentration of 1-5 µg/ml can detect 50 ng of SDS-denatured and β-mercaptoethanol-reduced PHF-tau.

MONOCLONAL MOUSE ANTI-HUMAN PHF-TAU, CLONE AT100

BR-012

New code: 90209

Immunoglobulin class	IgG1 κ
Clone	AT100
Mass/vial	100 µg
Volume/vial	0.5 ml

FOR RESEARCH USE ONLY

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 (4)

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) Matsuo ES, et al. Neuron 1994; 13: 989-1002.
- (4) Goedert M, et al. Neuron 1989; 3: 519-26.
- (5) Zheng-Fischhofer Q, et al. Eur J Biochem 1998; 252:542-552