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

Code: 90206

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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<tr>
<td>Immunoglobulin class</td>
<td>IgG1κ</td>
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<tr>
<td>Clone</td>
<td>AT8</td>
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<tr>
<td>Mass/vial</td>
<td>100μg</td>
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<tr>
<td>Volume/vial</td>
<td>0.5ml</td>
</tr>
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</table>

FOR RESEARCH USE ONLY

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/O 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