**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* 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-denatured 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.

**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**