

Anti-Phospho-Tau [AT8] Standard Size Ab02331-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: AT8

Alternative Name(s) of Target: MAPT; TAU; PHF-tau; PHF; MAPTL; MTBT1; Tau proteins; Phospho-Tau (Ser202, Thr205); Microtubule-associated protein tau; Neurofibrillary tangle protein; Paired helical filament-tau

UniProt Accession Number of Target Protein: P10636

Published Application(s): WB, ELISA, IHC, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with partially purified PHF-tau in complete Freund's adjuvant.

Specificity: This antibody recognizes and binds phosphorylated epitopes of the Tau protein (PHF-Tau). This antibody does not cross react with normal Tau or bovine Tau. It is capable of recognizing phosphorylations at both serine 202 and threonine 205 and to some extent also serine 208 (PMID: 7624036, 26800003).

Application Notes: This antibody recognizes all isoforms from Alzheimer PHFs, but none from normal bovine or human brain. This antibody also recognizes Alzheimer's disease-associated PHF-Tau in an ELISA with no cross reactivity to normal Tau protein (PMID: 1384266). This antibody shares an overlapping epitope with another anti-tau antibody TAU1 (PMID: 1563356). This antibody strongly reacts with PHF tau in a western blot assay (PMID: 1384266, 1563356, 1376918, 1376245, 7875300). This antibody was also used for the immunohistochemical staining of different tissues of the fetal and adult human central nervous system and an Alzheimer disease patient (PMID: 8506352). This antibody was also used in an immunohistochemical autopsy study to examine p-MAPT neuropathology in the fornix and basal forebrain nuclei of 39 recently archived brain autopsies (PMID: 27793193). It was also used in the immunofluorescent detection of hyperphosphorylated tau (AT8) on a hippocampal section of an Alzheimer disease brain (PMID: 20448485).

Antibody First Published in: Mercken et al. Monoclonal antibodies with selective specificity for Alzheimer Tau are directed against phosphatase-sensitive epitopes. *Acta Neuropathol.* (1992); 84(3):265-72.

[PMID:1384266](#)

Note on publication: Describes the generation of PHF-Tau specific antibodies with no cross reactivity to

normal Tau protein that can be used as a tool for detection of paired helical filaments found in Alzheimer's disease.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.