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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Tau [MN423] Standard Size Ab02389-10.0

This chimeric human antibody was made using the variable domain sequences of the original mouse IgG2b format for improved compatibility with existing reagents, assays, and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: MN423

Alternative Name(s) of Target: MAPT; TAU; PHF-tau; MAPTL; MTBT1; TAU; PHF; Tau proteins; Alzheimer paired helical filaments; Paired helical filament-tau; Microtubule-associated protein tau; Neurofibrillary tangle protein; mAb 423; NOAL 6.423; NOAL 6/66.423.2

UniProt Accession Number of Target Protein: P10636

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

Published Species Reactivity: Human

Immunogen: The original antibody was generated by hyper-immunizing C3H mice with tangle-enriched fragments of the Alzheimer paired helical filaments core.

Specificity: This antibody recognizes the pronase-resistant core PHF and the 12 kDa tau fragment but does not recognize normal full-length tau. It is also reported that this antibody specifically recognizes tau truncated at Glu391 on the C terminus side. The addition or removal of a single residue at the C-terminus abolishes immunoreactivity.

Application Notes: This antibody was characterized in detail (Novak et al., 1989; PMID: 2602435) and has been extensively utilized in Alzheimer's disease research: It played a crucial role in the structural characterization of the Alzheimer paired helical filament (PHF) core (Wischnik et al., 1988; PMID: 2455299), and was employed for extracting two peptide fragments (9.5 and 12 kDa) of the PFH pronase-resistant core through immunoblotting (Wischnik et al. 1988; PMID: 3132715). Additionally, it was used to study the folding of the Alzheimer's core PHF subunit through competitive ELISA and western blotting (Skrabana et al., 2004; PMID: 15196943). It has been instrumental in the molecular investigation of neurofibrillary degeneration in Alzheimer's disease (Bondareff et al., 1994; PMID: 7509849). Epitope mapping revealed that it requires a glycine at position -3 with respect to the C terminus (Khuebachova et al., 2002; PMID: 11983234). In the realm of tau protein studies related to Alzheimer's disease, it has been employed for immunohistochemistry on brain tissue samples (Mondragón-Rodríguez et al., 2014; PMID: 24033439). Double and triple-labeled immunofluorescence was conducted using this antibody on brain tissue from Alzheimer's disease patients (Mondragón-Rodríguez et al., 2014; PMID: 24033439) (García-Sierra et al., 2003; PMID: 12719624). This antibody was used to immunoblot purified candidate tau analogs (Novak et al., 1993; PMID: 7679073).

Furthermore, it was employed in immunohistochemical staining of brain tissue from patients with Alzheimer's disease, NCI, PSP, or CBD (Berry et al., 2004; PMID: 15475684). Western blot analysis on brain tissue from Alzheimer's patients was performed (Fitzpatrick et al., 2017; PMID: 28678775). This antibody was also used for a competitive ELISA on the Alzheimer's disease expression cDNA library made from the hippocampus of a 70-year-old patient who died from Alzheimer's disease (Khuebachova et al., 2002; PMID: 11983234).

Antibody First Published in: Wischik et al. Isolation of a fragment of tau derived from the core of the paired helical filament of Alzheimer disease. Proc Natl Acad Sci U S A. (1988); 85(12):4506-10.

[PMID:3132715](#)

Note on publication: The original publication describes the generation and use of this antibody for the extraction of two peptide fragments of Alzheimer paired helical filaments.

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.