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35-1338: Polyclonal Antibody to Tau (phospho-Ser416)

Clonality: Polyclonal

Application: WB

Reactivity: Rat, Mouse, Human

Gene : MAPT
Gene ID : 4137
Uniprot ID : P10636
Format : Purified

Alternative Name : MAPT, MTAPT, MTBT1, Neurofibrillary tangle protein, PHF-tau

Isotype: Rabbit IgG

Immunogen Information: Peptide sequence around phosphorylation site of serine 416 (T-G-S(p)-I-D) derived from

Human Tau.

Description

Tau is a heterogeneous microtubule-associated protein that promotes and stabilizes microtubule assembly, especially in axons. Six isoforms with different amino-terminal inserts and different numbers of tandem repeats near the carboxy-terminus have been identified, and tau is hyperphosphorylated at approximately 25 sites by ERK, GSK-3 and CDK5 (1-2). Phosphorylation decreases the ability of tau to bind to microtubules. Neurofibrillary tangles are a major hallmark of Alzheimer's disease and these tangles are bundles of paired helical filaments composed of hyperphosphorylated tau. In particular, phosphorylation of Ser396 by GSK-3 or CDK5 destabilizes microtubules in Alzheimer's disease. Furthermore, inclusions of tau are found in a number of other neurodegenerative diseases, collectively known as tauopathies (1,3). Timm T, et al. (2003) EMBO J; 22(19): 5090-5101.

Product Info

Amount : 50 μl / 100 μl

Content: Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM

NaCl, 0.02% sodium azide and 50% glycerol.

Storage condition : Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Predicted MW: 48 62 78kd, Western blotting: 1:500~1:1000

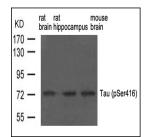


Figure 1: Western blot analysis of extract from rat brain, rat hippocampus and mouse brain using Tau(phospho-Ser416) Antibody 35-1338 .