

Polyclonal Antibody to Tau (Cocktail)

Alternate names:	MAPT, MAPTL, MTBT-1, MTBT1, Microtubule-Associated Protein Tau, Neurofibrillary Tangle Protein, PHF-Tau, Paired Helical Filament-Tau
Catalog No.:	SP6362P
Quantity:	50 µg
Concentration:	0.5 mg/ml
Host:	Rabbit
Immunogen:	A few synthetic peptides corresponding to human Tau at the phosphorylated site of Serine 202, Threonine 205, Serine 396, Serine 404

Format: This antibody is supplied as liquid epitope affinity purified immunoglobulin fraction in Phosphate buffered saline pH 7.4 with 0.02% Proclin300 as preservative.

Applications:	ELISA (0.1 - 1.0 µg/ml), Western blot (0.5 - 2 µg/ml) and immunoprecipitation (3.0 - 5.0 µg/extract from 107 cells). Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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Specificity:	Tau is a collection of microtubule-associated proteins involved in microtubule assembly and stabilization (1). In adult human brain, 6 isoforms ranging between 352 and 441 amino acids in length are produced as a result of alternative RNA splicing (2, 3). The expression of tau isoforms is developmentally regulated, as only the smallest tau polypeptide is expressed in fetal brain. Hyperphosphorylated Tau is the major component of the paired helical filament of Alzheimer's Disease. Phosphorylation-dependent anti-Tau antibodies are used to identify specific amino acids that are phosphorylated in tau from normal brain and Alzheimer's disease brain. The Tau proteins, especially in developing brain and in Alzheimer brains, can be found to be phosphorylated in vivo at many different sites (4). This antibody is specific for Tau phosphorylated at the position of Serine 202, Threonine 205, Serine 396, Serine 404. The antibodies were evaluated for specificity with a dot blot assay using synthetically prepared Tau peptides. It recognizes the phosphorylated Serine 202, Threonine 205, Serine 396, Serine 404 of human Tau, not other phosphorylated sites or non-phosphorylated Tau. By western blot, the immunoreactive bands around 52-68 kDa were observed in the whole mouse brain tissue lysate.
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Storage:	Store the antibody undiluted at 4-8°C for one month or at -20°C for longer. Avoid repeated freezing and thawing. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf life: one year from despatch.
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General Readings:	1. Cleveland DW, et al (1977) J. Mol. Biol. 116, 207-225 2. Goedert M, et al (1989) Neuron 3, 519-526. 3. Geodert M, et al (1989) EMBO J. 8, 393-399.
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