

phospho-Tau181(1C8) Monoclonal Antibody

Basic information:

Catalog No.:	UDA9096-11	Source:	Mouse
Clonality:	Monoclonal	Isotype:	IgG1
Purity:	>95% as determined by SDS-PAGE.		

Useful Information:

Applications:	ELISA (more applications not tested)
Usage:	Capture antibody
Specificity:	Recognizes Human Tau protein only when phosphorylated at Thr181.
Format:	Liquid
Purification:	Protein A/G affinity purification from mouse ascites.
Immunogen:	Synthetic peptide derived from human Tau protein around the phosphorylation site of Threonine 181.
Presentation:	PBS, pH 7.4.
Description:	<p>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. Phosphorylation decreases the ability of tau to bind to microtubules. Neurofibrillary tangles are a major hallmark of Alzheimer's disease; these tangles are bundles of paired helical filaments composed of hyperphosphorylated tau. In particular, phosphorylation at Ser396 by GSK-3 or CDK5 destabilizes microtubules. The cerebrospinal fluid concentration of Tau phosphorylated at Thr181 has been proposed to be a biomarker for the study of neurodegenerative disorders.</p>
Storage:	Store at 4°C short term and -20°C long term. Avoid freeze-thaw cycles.
Note:	<p>Test systems and platform change may cause different results, please contact us if you have any questions.</p> <p>This product is sold for research use only. Standard Laboratory Practices should be followed when handling this material.</p>