Anti-phospho-Tau (Thr205)
Rabbit Polyclonal Antibody

Catalog # T08-365BR
Lot # J1178-24

Cited Applications
WB

Suggested Dilutions:
WB: 1:500-1:1000

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity
Recognizes the Tau protein phosphorylated at threonine 205

Cross Reactivity
Human, Mouse and Rat

Host/Isotype/Clone#
Rabbit, IgG

Immunogen
Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr205

Formulation
PBS (pH 7.4) 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Scientific Background
The Tau family of proteins interacts directly with microtubules to stabilize macromolecular structures. Microtubule association is dependent on the phosphorylation state of Tau proteins [1]. Hyperphosphorylated Tau proteins are implicated in Alzheimer’s disease (AD) where it is a major component of the offending protein aggregates. Other components of the aggregates include misfolded proteins such as β-amyloid precursor protein (βAPP), ubiquitin, and various chaperones and protein kinases. Malfunctioning Tau proteins are associated with microtubule disintegration and collapse of the neuronal transport system [2].

References

Sample Data
Western blot analysis of extracts mouse brain using Tau antibody (lanes 1 and 2) and anti-phospho-Tau (Thr205) antibody (lanes 3 and 4).