**Anti-phospho-Tau (Thr231)**

Rabbit Polyclonal Antibody

**Catalog # T08-365CR**  
**Lot # J1178-25**

**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 231

**Cross Reactivity**  
Human, Mouse and Rat

**Host/Isotype/Clone#**  
Rabbit, IgG

**Immunogen**  
Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr231

**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 -amyloid precursor protein (APP), ubiquitin, and various chaperones and protein kinases. Malfunctioning Tau proteins are associated with microtubule disintegration and collapse of the neuronal transport system [2].

**References**


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**Sample Data**

Western blot analysis of extracts mouse brain using Tau antibody (lanes 1 and 2) and anti-phospho-Tau (Thr231) antibody (lanes 3 and 4).

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**Purification**  
Affinity chromatography

**Stability**  
1yr at −20°C from date of shipment

**Storage & Shipping**  
Store product at −20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

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