

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### p-Tau (S396) pAb

Cat No.: BS4196

Host: Rabbit

Reactivity: Human, Mouse, Rat

#### BACKGROUND

Glycogen synthase kinase 3, or GSK 3, is a serine/threonine, proline-directed kinase involved in a diverse array of signaling pathways, including glycogen synthesis and cellular adhesion and has been implicated in Alzheimer's disease. Two forms of GSK 3, designated GSK 3A and GSK 3B have been identified and differ in their subcellular localization. Tau, a microtubule-binding protein which serves to stabilize microtubules in growing axons, is found to be hyperphosphorylated in paired helical filaments (PHF), the major fibrous component of neurofibrillary lesions associated with Alzheimer's disease. Hyperphosphorylation of Tau is thought to be the critical event leading to the assembly of PHF. Six Tau protein isoforms have been identified, all of which are phosphorylated by GSK 3. This presents the possibility that miscues in GSK 3 signaling contribute to the onset of Alzheimer's disease.

#### PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 0.05

#### Molecular Weight

~79 kDa

#### PURIFICATION & PURITY

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

and the purity is > 95% (by SDS-PAGE).

#### APPLICATIONS

WB: 1:500 ~ 1:1000 (Recommended Dilutions)

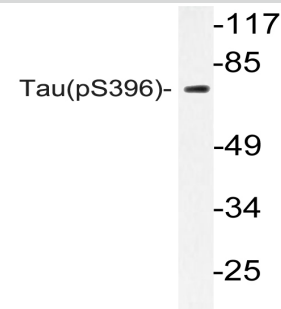
#### STORAGE & STABILITY

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

#### SPECIFICITY

p-Tau (S396) pAb detects endogenous levels of Tau protein only when phosphorylated at S396

#### DATA



**Western blot (WB)** analysis of p-Tau (S396) pAb in extracts from HeLa cells or mouse brain

**Immunohistochemistry (IHC)** analyzes of p-Tau (S396) pAb in paraffin-embedded human breast carcinoma tissue

#### RESEARCH USE

For research use only, not for use in diagnostic procedures.

Bioworld Technology, Inc.

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