

**Tau Antibody (pSer202/ pThr205)**  
**Tau Antibody (pSer202/ pThr205), Clone AH36**  
**Catalog # ASM10690**

## Specification

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### Tau Antibody (pSer202/ pThr205) - Product Information

Primary Accession	<a href="#">P10636</a>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal</b>
<b>Target/Specificity</b>	
Tau (pSer202/ pThr205)	

#### Other Names

Tau Antibody, Neurofibrillary tangle protein Antibody, MAPTL Antibody, Microtubule-associated protein tau Antibody, MTBT1 Antibody, Paired helical filament-tau Antibody, TAU Antibody, PHF-tau Antibody, MAPT Antibody, AI413597 antibody, AW045860 antibody, DDPAC antibody, FLJ31424 antibody, FTDP 17 antibody, G protein beta1/gamma2 subunit interacting factor 1 antibody, MAPT antibody, MAPTL antibody, MGC134287 antibody, MGC138549 antibody, MGC156663 antibody, Microtubule associated protein tau antibody, Microtubule associated protein tau isoform 4 antibody, Microtubule-associated protein tau antibody, MSTD antibody, Mtapt antibody, MTBT1 antibody, MTBT2 antibody, Neurofibrillary tangle protein antibody, Paired helical filament tau antibody, Paired helical filament-tau antibody, PHF tau antibody, PHF-tau antibody, PPND antibody, PPP1R103 antibody, Protein phosphatase 1, regulatory subunit 103 antibody, pTau antibody, RNPTAU antibody, TAU antibody, TAU\_HUMAN antibody, Tauopathy and respiratory failure, included antibody, AT8 antibody, phospho tau antibody

#### Immunogen

Synthetic peptide of Human Phospho Tau (Ser202/Thr205)

#### Purification

Affinity Purified

Storage **-20°C**

#### Storage Buffer

PBS pH 7.4, 50% glycerol, 0.09% Sodium azide \*Storage buffer may change when conjugated

Shipping Temperature

**Blue Ice or 4°C**

#### Certificate of Analysis

A 1:500 dilution of SMC-601 was sufficient for detection of Tau in 10 µg Baculovirus by dot blot analysis using Goat Anti-Rabbit IgG:HRP as the secondary antibody.

#### Cellular Localization

Cytoskeleton | Cytosol | Plasma Membrane | Axon | Dendrite

### Tau Antibody (pSer202/ pThr205) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Tau Antibody (pSer202/ pThr205) - Images**

### **Tau Antibody (pSer202/ pThr205) - Background**

Alzheimer's Disease (AD) is the most common neurodegenerative disease, affecting 10% of seniors over the age of 65 (1). It was named after Alois Alzheimer, a German scientist who discovered tangled bundles of fibrils where neurons had once been in the brain of a deceased patient in 1907 (2). Tau (tubulin-associated unit) is normally located in the axons of neurons where it stabilizes microtubules. Tauopathies such as AD are characterized by neurofibrillary tangles containing hyperphosphorylated tau fibrils (3). Phosphorylation at serine 202 and threonine 205 induces a turn-like structure and drives tau aggregation (4). SMC-601 recognizes the same epitope as the AT8 phospho tau antibody.

### **Tau Antibody (pSer202/ pThr205) - References**

1. [www.alz.org/alzheimers-dementia/facts-figures](http://www.alz.org/alzheimers-dementia/facts-figures)
2. Alzheimer, A. Über eine eigenartige Erkrankung der Hirnrinde. Allg. Z. Psychiatr. Psych.-Gerichtl. Med. 64, 146-148 (1907)
3. Matsumoto, G. et al. (2018). Int J Mol Sci. 19, 1497.
4. Depres, C. et al. (2017). PNAS 114(34):9080-9085.