

Catalog # ASM10704

Tau Antibody (pThr217) Tau Antibody (pThr217), Clone 15B7

## Specification

## Tau Antibody (pThr217) - Product Information

Primary Accession Other Accession Host Clonality **Target/Specificity** Tau (pThr217)

<u>P10636</u> <u>NP\_058519.3</u> Mouse Monoclonal

**Other Names** Microtubule associated protein tau | phospho tau

**Immunogen** Synthetic peptide of Wild-type Human Tau (pThr217) AA 210-224: SRTPSLP-pT-PPTREPK

Purification Protein G 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<sup>o</sup>C Certificate of Analysis A 1:1000 dilution of SMC-615 was sufficient for detection of Tau in 10 μg of Human, Mouse, Rat Tau Peptide (pThr217) by DB analysis using Goat Anti-Mouse IgG:HRP as the secondary antibody.

Cellular Localization Intracellular | Secreted

## Tau Antibody (pThr217) - Protocols

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

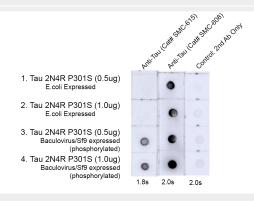
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Tau Antibody (pThr217) - Images





Dot Blot analysis of Human, Mouse, Rat Tau Peptide (pThr217) showing detection of Tau protein using Mouse Anti-Tau Monoclonal Antibody, Clone 15B7 (ASM10704). Panel A: hTau 2N4R monomer (pSer214) (2 ug). Panel B: Tau peptide (pThr217) (2 ug). Panel C: Tau peptide (non phospho) (2 ug). Load: 2ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Tau Monoclonal Antibody (ASM10704) at 1:1000 for 1 hour at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:H&L at 1:4000 for 1/2 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Phospho peptide sequence: SRTPSLP-pT-PPTREPK. Non-phospho peptide sequence: SRTPSLPTPTREPK. This sequence is the same for human, mouse, and rat.



Dot Blot analysis of Human, Mouse, Rat Tau 2N4R P301S (phospho & non-phospho) showing detection of Tau protein using Mouse Anti-Tau Monoclonal Antibody, Clone 15B7 (ASM10704). Lane 1: hTau 2N4R P301S Monomer(0.5ug). Lane 2: hTau 2N4R P301S Monomer(1.0ug). Lane 3: Recombinant hTau-441 (2N4R) P301S Monomer. Baculovirus/Sf9 Expressed (phosphorylated)(0.5ug). Lane 4: Recombinant hTau-441 (2N4R) P301S Monomer, Baculovirus/Sf9 Expressed (phosphorylated)(1.0ug). Load: 0.5ug, 1.0ug. Block: 5% BSA in TBST. Primary Antibody: Mouse Anti-Tau Monoclonal Antibody (ASM10704) at 1:4 for Overnight, 4C, with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Dot Blot performed with supernatants.

## Tau Antibody (pThr217) - Background

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type.