

## Tau(Phospho-Ser235) Antibody

Catalog No: #11106

Package Size: #11106-1 50ul #11106-2 100ul

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## Description

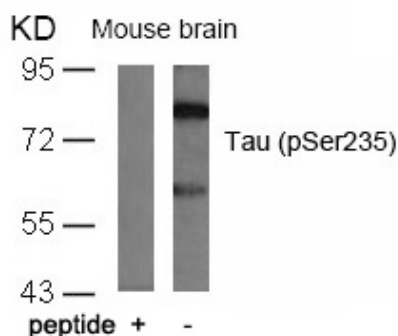
|                       |                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Tau(Phospho-Ser235) Antibody                                                                                                                                                                                                                                                            |
| Host Species          | Rabbit                                                                                                                                                                                                                                                                                  |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                              |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.<br>Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB                                                                                                                                                                                                                                                                                      |
| Species Reactivity    | Human;Mouse;Rat                                                                                                                                                                                                                                                                         |
| Specificity           | The antibody detects endogenous level of Tau only when phosphorylated at serine 235.                                                                                                                                                                                                    |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                                                                                                                             |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 235 (P-K-S(p)-P-S) derived from Human Tau.                                                                                                                                                                                       |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                            |
| Target Name           | Tau                                                                                                                                                                                                                                                                                     |
| Modification          | Phospho                                                                                                                                                                                                                                                                                 |
| Other Names           | MAPT; MTAPT; MTBT1; Neurofibrillary tangle protein; PHF-tau                                                                                                                                                                                                                             |
| Accession No.         | Swiss-Prot: P10636NCBI Protein: NP_001116538.1                                                                                                                                                                                                                                          |
| Concentration         | 1.0mg/ml                                                                                                                                                                                                                                                                                |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                            |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                                                                                                                               |

## Application Details

Predicted MW: 48 62 78 kd

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from mouse brain tissue using Tau(Phospho-Ser235) Antibody #11106 and the same antibody preincubated with blocking peptide.

## Background

Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.

Alonso Adel C, et al. (2004) J Biol Chem. 279(33): 34873-34881.

Liu F, et al. (2002) FEBS Lett. 530(1-3): 209-214.

Sengupta A, et al. (1998) Arch Biochem Biophys. 357(2): 299-309.

## Published Papers

Johanne Bertrand, Patrick Senechal, Mathieu Zummo-Soucy et al., The formation of tau pathological pathological phospho-epitopes in the axon is prevented by the dephosphorylation of selective sites in primary hippocampal neurons over-expressing human tau., JOURNAL OF NEUROCHEMISTRY., 114:1353— C1367(2010)

[PMID:20550628](#)

et al., The formation of tau pathological phospho- $\zeta$  epitopes in the axon is prevented by the dephosphorylation of selective sites in primary hippocampal neurons over-expressing human tau. In J Neurochem on 2010 Sep 1 by Johanne Bertrand, Patrick Senechal, et al..PMID: 20550628, , (2010)

[PMID:20550628](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.