

# Tau (Phospho-Thr217) Antibody

Catalog No: #11724

Package Size: #11724-1 50ul #11724-2 100ul

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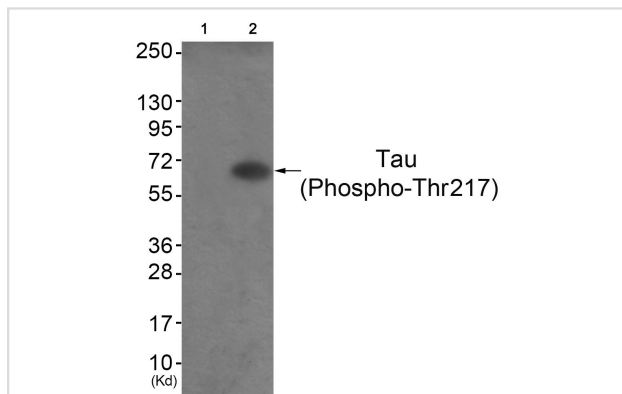
## Description

|                       |  |
|-----------------------|--|
| Product Name          | Tau (Phospho-Thr217) Antibody  |
| Host Species          | Rabbit   |
| Clonality             | Polyclonal   |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB,IHC   |
| Species Reactivity    | Human, Mouse, Rat,Bovine,Monkey,Pig  |
| Specificity           | The antibody detects endogenous levels of Tau only when phosphorylated at threonine 217.   |
| Immunogen Type        | Peptide-KLH  |
| Immunogen Description | Peptide sequence around phosphorylation site of threonine 217(L-P-T(p)-P-P) derived from Human Tau.  |
| Target Name           | Tau  |
| Modification          | Phospho  |
| Other Names           | MAPT; MTBT1; PHF-tau;  |
| Accession No.         | Swiss-Prot#: P10636; NCBI Gene#: 4137; NCBI Protein#: NP_058519.3.   |
| SDS-PAGE MW           | 65kd   |
| Concentration         | 1.0mg/ml   |
| Formulation           | Rabbit IgG 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/1 year  |

## Application Details

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from HepG2 cells (Lane 2), using Tau (Phospho-Thr217) Antibody #11724. The lane on the left is treated with antigen-specific peptide.

## Background

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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.

Goedert M., Proc. Natl. Acad. Sci. U.S.A. 85:4051-4055(1988).

Goedert M., EMBO J. 8:393-399(1989).

Lee G., Neuron 2:1615-1624(1989).

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