

## Tau (Phospho-Thr217) Antibody

Catalog No: #11724

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

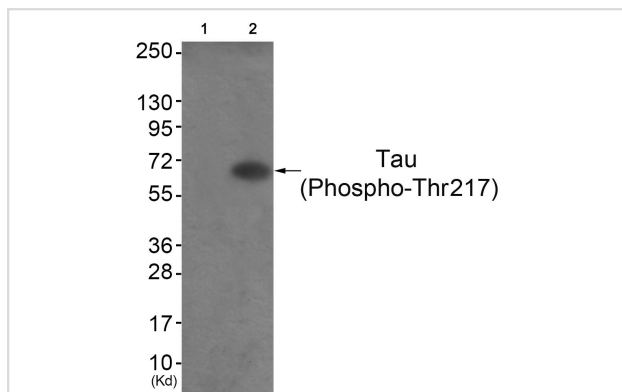
## Description

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.
Uniprot	P10636
GeneID	4137;
SDS-PAGE MW	50-80kd
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

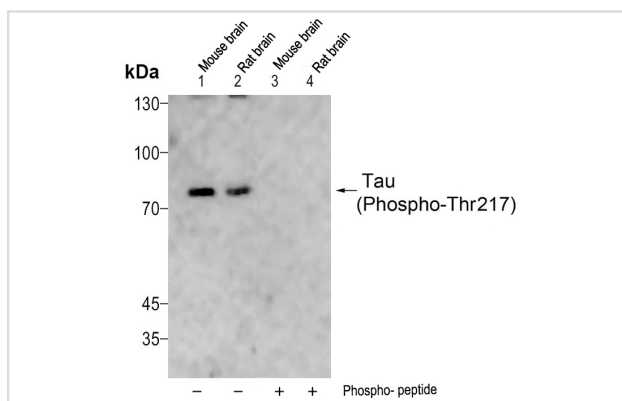
## Application Details

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.



Western blot analysis of extracts from mouse brain (Lane 1, Lane 3), rat brain (Lane 2, Lane 4), using Tau (Phospho-Thr217) Antibody #11724. The lane 3 and lane 4 are treated with antigen-specific 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.

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).

Note: This product is for in vitro research use only