Tau (Phospho-Thr181) Conjugated Antibody

Catalog No: #C11107

Package Size: #C11107-Biotin 100ul #C11107-AF488 100ul #C11107-AF594 100ul #C11107-AF647 100ul #C11107-AF750 100ul #C11107-AF350 100ul #C11107-AF405 100ul #C11107-AF680 100ul #C11107-AF555 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
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Description

Product Name	Tau (Phospho-Thr181) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Tau only when phosphorylated at threonine 181.
Immunogen Description	Peptide sequence around phosphorylation site of threonine 181 (P-K-T(p)-P-P) derived from Human Tau.
Conjugates	AF Dye
Other Names	MAPT;MTAPT;MTBT1;Neurofibrillary tangle protein;PHF-tau
Accession No.	Swiss-Prot#:P10636NCBI Gene ID:4137NCBI mRNA#:NM_001123066.2 NCBI Protein#: NP _001116538.1
Calculated MW	48 62 78
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Published Papers

Berner Judith;Herrmann Martin;Kornhuber Johannes;Maler Juan Manuel;MuГ±oz Luis Enrique;Oberstein Timo Jan;Spitzer Philipp;Utz Janine el at., Cerebrospinal Fluid of Patients With Alzheimer's Disease Contains Increased Percentages of Synaptophysin-Bearing Microvesicles, , (2021)

PMID:34295239

Meng-Ting Wang;Zi-Cheng Hu;Yang Xiang;Xiao-Qin Zeng;Zhang-Cheng Fei;Jia Chen;Xin-Peng Li;Yu-Peng Zhu;Jun Wang;Yan-Jiang Wang;Zhi-Qiang Xu;Yu-Hui Liu el at., Fingolimod ameliorates amyloid deposition and neurodegeneration in APP/PS1 mouse model of Alzheimer's disease., , (2025)

PMID:40158900

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