

Tau(Ab-396) Antibody

Catalog No: #21093

Package Size: #21093-1 50ul #21093-2 100ul

Description

Product Name	Tau(Ab-396) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total Tau protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 394~398 (Y-K-S-P-V) derived from Human Tau.
Conjugates	Unconjugated
Target Name	Tau
Other Names	Neurofibrillary tangle protein; Paired helical filament-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 ²⁺ and Ca ²⁺), 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.

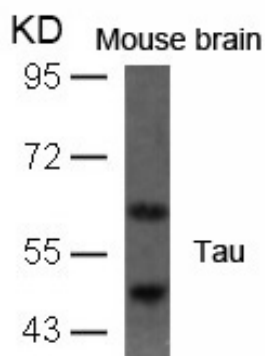
Application Details

Predicted MW: 48 62 78 kd

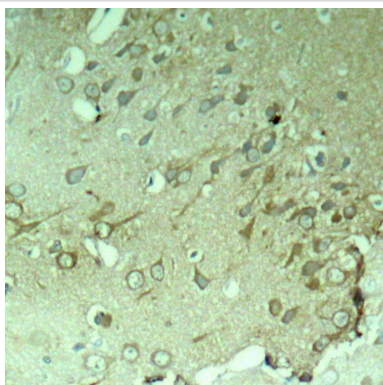
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from mouse brain tissue using Tau(Ab-396) Antibody #21093.



Immunohistochemical analysis of paraffin-embedded rat hippocampal region tissue from a model with Alzheimer

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.

Puig B, et al. (2005) *Acta Neuropathol (Berl)*. 110(3):261-268.

DeGiorgis JA, et al. (2005) *J Proteome Res*. 4(2): 306-315.

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

Published Papers

el at., Tau hyperphosphorylation is associated with memory impairment after exposure to 1.5% isoflurane without temperature maintenance in rats. In *Eur J Anaesthesiol* on 2010 Sep by Tan W, Cao X, et al..PMID:20485178, , (2010)

[PMID:20485178](#)

el at., Protective effects of lithium treatment for spatial memory deficits induced by tau hyperphosphorylation in splenectomized rats. In *Clin Exp Pharmacol Physiol* on 2010 Oct by Tan WF, Cao XZ, et al..PMID:20659131, , (2010)

[PMID:20659131](#)

el at., Chronic Cold-Water-Induced Hypothermia Impairs Memory Retrieval and Nepeta Menthoides as a Traditional "Hot" Herb Reverses the Impairment. In *Iran J Pharm Res* on Winter 2014 by Mohammad Mahdi ,Ahmadian-Attar et al..PMID:24711845, , (2014)

[PMID:24711845](#)

el at., Impairment of rat spatial learning and memory in a new model of cold water-induced chronic hypothermia: implication for Alzheimer's disease. In *Neurotox Res* on 2015 Aug by Mohammad Mahdi Ahmadian-Attari, Leila Dargahi et al..PMID:25782579, , (2015)

[PMID:25782579](#)

el at., Erythropoietin attenuates Alzheimer-like memory impairments and pathological changes induced by amyloid $\epsilon^{\sim}$ Y42 in mice. In *Brain Res* on 2015 Aug 27 by Yi-Pei Li, Guo-Jun Yang et al..PMID:26049128, , (2015)

[PMID:26049128](#)

el at., Capsaicin consumption reduces brain amyloid-beta generation and attenuates Alzheimer's disease-type pathology and cognitive deficits in APP/PS1 mice. In *Transl Psychiatry* on 2020 Jul 13 by Jun Wang, Bin-Lu Sun, et al..PMID:32661266, , (2020)

[PMID:32661266](#)

el at., Gypenoside IX restores Akt/GSK-3 β pathway and alleviates Alzheimer's disease-like neuropathology and cognitive deficits. In *Aging (Albany NY)* on 2023 Dec 12 by Ling Lei, Yong Luo et al..PMID:38095632, , (2023)

[PMID:38095632](#)

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