

Rabbit Anti-phospho-Tau (Ser673) antibody

SL10114R

Product Name:	phospho-Tau (Ser673)
Chinese Name:	磷酸化微管相关蛋白抗体 人名英格兰 人名英格兰 人名英格兰 人名英格兰人 网络马克尔 网络马克尔 网络马克尔 医白红 化乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸乙酸
Alias:	MAPT(phospho S673); p-Tau protein(phospho-Ser673); MAPT; Microtuble-associted protein Tau; AI413597; AW045860; DDPAC; Disinhibition dementia parkinsonism amyotrophy complex; FLJ31424; FTDP 17; FTDP17; G Protein beta 1 gamma 2 subunit interacting factor 1; G protein beta1/gamma2 subunit interacting factor 1; MAPTL; MGC134287; MGC138549; MGC156663; Microtubule associated protein tau isoform 4; MSTD; Mtapt; MTBT1; MTBT2; Neurofibrillary tangle protein; Paired helical filament tau; PHF tau; PHF-tau; PPND; pTau; RNPTAU; Tauopathy and respiratory failure, included; TAU_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	52/79kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Tau protein around the phosphorylation site of Ser673:IG(p-S)LD
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

components. Phosphorylation on Ser-610, Ser-622, Ser-641 and Ser-673 in several isoforms during mitosis. Phosphorylation at Ser-548 by GSK3B reduces ability to bind and stabilize microtubules. Phosphorylation at Ser-579 by BRSK1 and BRSK2 in neurons affects ability to bind microtubules and plays a role in neuron polarization. Phosphorylated at Ser-554, Ser-579, Ser-602, Ser-606 and Ser-669 by PHK. Phosphorylation at Ser-214 by SGK1 mediates microtubule depolymerization and neurite formation in hippocampal neurons. There is a reciprocal down-regulation of phosphorylation and O-GlcNAcylation. Phosphorylation on Ser-717 completely abolishes the O-GlcNAcylation on this site, while phosphorylation on Ser-713 and Ser-721 reduces glycosylation by a factor of 2 and 4 respectively. Phosphorylation on Ser-717

DISEASE:

Defects in MAPT are a cause of Pick disease of the brain (PIDB) [MIM:172700]. It is a rare form of dementia pathologically defined by severe atrophy, neuronal loss and gliosis. It is characterized by the occurrence of tau-positive inclusions, swollen neurons (Pick cells) and argentophilic neuronal inclusions known as Pick bodies that disproportionally affect the frontal and temporal cortical regions. Clinical features include aphasia, apraxia, confusion, anomia, memory loss and personality deterioration.

Similarity:

Contains 4 Tau/MAP repeats.

SWISS: P10636

Gene ID: 4137

Database links:

Entrez Gene: 281296Cow

Entrez Gene: 4137Human

Entrez Gene: 17762Mouse

Entrez Gene: 29477Rat

<u>Omim: 157140</u>Human

SwissProt: P29172Cow

SwissProt: P10636Human

SwissProt: P10637Mouse

SwissProt: P19332Rat

Unigene: 101174Human

Unigene: 1287Mouse
Unigene: 2455Rat
Oligene. 2455 Rat
Important Note:
This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.
P-
tau蛋白是脑内神经元细胞支架蛋白之一。其正常功能是促进微管蛋白组成微管,
并维持已形成微管的稳定性。参与维持细胞形态、信息传递、细胞分裂等重要生物
学过程,是轴突生长发育和神经元极性形成的不可缺少因素。近年来发现tau蛋白
与一些中枢神经系统变性疾病密切相关,尤其是神经Tau具有启动微管系统的装配
以及稳定微管系统的作用,该蛋白的错误折叠与老年性痴呆等神经退行性疾病密
切相关。
切相关。