

Rabbit anti-Human Tau Polyclonal Antibody | anti-tau antibody

Tau, phosphorylated (Thr217) (Tau Protein, Microtubule-associated Protein, MAP)

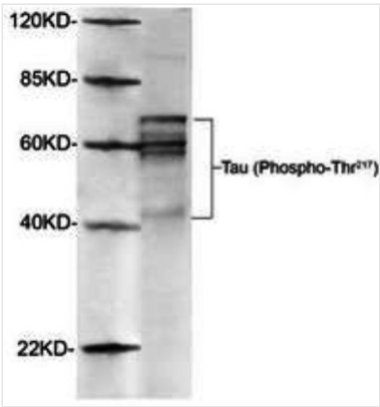
CATALOG # AAA14727	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

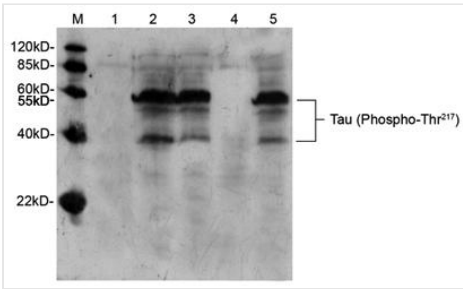
Tau; Polyclonal Antibody; phosphorylated (Thr217) (Tau Protein; Microtubule-associated Protein; MAP); Anti -Tau; anti-tau antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Recognizes endogenous levels of human Tau only when phosphorylated at threonine 217. Species Crossreactivity: mouse and rat.
Purity/Purification	Purified by Affinity chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.4, 0.02% sodium azide, 30% glycerol.
Concentration	0.5 mg/mL (varies by lot)
Applicable Applications for anti-tau antibody	ELISA, WB (Western Blot)
Application Notes	Dilution: ELISA: 0.05-0.2ug/ml Western Blot: 0.1-1ug/ml Optimal dilutions to be determined by the researcher.
Grade	Affinity Purified
Immunogen	Synthetic phospho-peptide (KLH). corresponding to residues surrounding Thr217 of human Tau conjugated to KLH
Preparation and Storage	May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



WB (Western Blot)
Western Blot of Rat brain using AAA14727 (1ug/mL). The signal was developed with IRDyeTM800 conjugated giat anti-rabbit IgG



WB (Western Blot)
Western blot analysis of mouse brain tissue lysate using Rabbit Anti-Tau (Phospho-Thr217) Polyclonal Antibody Lane 1: Primary antibody negative control Lane 2: Rabbit Anti-Tau (Phospho-Thr217) Polyclonal Antibody Lane 3: Rabbit Anti-Tau (Phospho-Thr217) Polyclonal Antibody pre-incubated with non-phospho-peptide Lane 4: Rabbit Anti-Tau (Phospho-Thr217) Polyclonal Antibody pre-incubated with phospho-peptide Lane 5: Rabbit Anti-Tau (Phospho-Thr217) Polyclonal Antibody pre-incubated with generic phospho-threonine containing peptide Secondary antibody: Goat Anti-Rabbit IgG (H&L) [HRP] Polyclonal Antibody The signal was developed with LumiSensorTM HRP Substrate Kit

ADDITIONAL INFORMATION

Related Product Information for anti-tau antibody	Tau is a microtubule-associated phosphoprotein (MAP), localized in neuronal axons. It promotes tubulin polymerization and stabilizes microtubules. Tau proteins constitute a family of six isoforms, which range from 352 to 441 amino acids. The tau variants differ from each other by the presence of either three or four repeat-regions in the carboxy-terminal part of the molecule and the absence or presence of one or two inserts in the amino-terminal part. Tau is hyperphosphorylated by ERK, GSK-3, TPKII, and CDK5. At least thirty phosphorylation sites have been described, including Thr39, Ser46, Thr50, Thr69, Thr153, Thr175, Thr181, Ser198, Ser199, Ser202, Thr205, Ser208, Ser210, Thr212, Ser214, Thr217, Thr231, Ser235, Ser237, Ser241, Ser262, Ser285, Ser305, Ser324, Ser352, Ser356, Ser396, Ser400, Thr403, Ser404, Ser409, Ser412, Ser413, Ser416, and Ser422. Specifically, TPKII phosphorylates serines 202 and 404. GSK-3? transfection phosphorylates serines 199, 202, 235, 396, 404 and 413, and threonines 205 and 231. These sites are among the major abnormal phosphorylation sites of Tau. Phosphorylation on these sites reduces the ability of a given Tau species to promote microtubule self-assembly. Hyperphosphorylated Tau is the major protein of the paired helical filaments (PHFs), which make up the pathological neurofibrillary tangles of Alzheimer's disease (AD). These PHFs are also found in the lesions of other central nervous system disorders.
Product Categories/Family for anti-tau antibody	Antibodies; Abs to Microtubule-associated Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	21357661
NCBI GeneID	326116
NCBI Accession #	NP_651575.1
NCBI GenBank Nucleotide #	NM_143318.2
NCBI Official Full Name	tau
NCBI Official Symbol	tau
NCBI Official Synonym Symbols	BcDNA:RE16764; CG12881; CG31057; CG5606; DmelCG31057; dtau
NCBI Protein Information	CG31057 gene product from transcript CG31057-RA; tau; CG31057-PA; tau-PA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.