

Rabbit anti-Human Tau Monoclonal Antibody | anti-Tau antibody

Tau Antibody (pSer202/ pThr205), Clone AH36: Biotin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA253982	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Dot Blot, Western Blot

PRODUCT SYNONYMS

Tau; Monoclonal Antibody; Tau Antibody (pSer202/ pThr205); Clone AH36: Biotin; Rabbit Anti-Human Tau Monoclonal IgG; Tau Antibody (pSer202/ pThr205): Biotin; Tau Antibody; Neurofibrillary tangle protein Antibody; MAPTL Antibody; Microtubule-associated protein tau Antibody; MTBT1 Antibody; Paired helical filament-tau Antibody; TAU Antibody; PHF-tau Antibody; MAPT Antibody; A1413597 antibody; AW045860 antibody; DDPAC antibody; FLJ31424 antibody; FTDP 17 antibody; G protein beta1/gamma2 subunit interacting factor 1 antibody; MAPT antibody; MAPTL antibody; MGC134287 antibody; MGC138549 antibody; MGC156663 antibody; Microtubule associated protein tau antibody; Microtubule associated protein tau isoform 4 antibody; Microtubule-associated protein tau antibody; MSTD antibody; Mtap antibody; MTBT1 antibody; MTBT2 antibody; Neurofibrillary tangle protein antibody; Paired helical filament tau antibody; Paired helical filament-tau antibody; PHF tau antibody; PHF-tau antibody; PPND antibody; PPP1R103 antibody; Protein phosphatase 1; regulatory subunit 103 antibody; pTau antibody; RNPTAU antibody; TAU antibody; TAU_HUMAN antibody; Tauopathy and respiratory failure; included antibody; anti-Tau antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	AH36
Specificity	Detects ~79 kDa.
Purity/Purification	Affinity Purified
Form/Format	PBS pH 7.4, 50% Glycerol, 0.09% Sodium Azide
Concentration	1 mg/ml (varies by lot)
Sequence Length	776
Applicable Applications for anti-Tau antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot), WB (Western Blot)
Immunogen Species	Human
Immunogen	Synthetic peptide of Human Phospho Tau (Ser202/Thr205)
Conjugate	Biotin
Cellular Localization	Cytoskeleton; Cytosol; Plasma Membrane; Axon; Dendrite
Tissue Specificity	Expressed in neurons.
Antibody Type	Recombinant Monoclonal
Preparation and Storage	Store at -20 degree C.

IMAGES



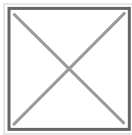
DB (Dot Blot)

Dot Blot analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Species: E. Coli, Baculovirus. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500. Secondary Antibody: Goat anti-rabbit IgG:HRP.



WB (Western Blot)

Western Blot analysis of Human iPSC-derived cortical neurons showing detection of Tau protein using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Lane 1: MW ladder. Lane 2: Control (non-disease) line. Lane 3: Ex10+16 tau mutant sample. Lane 4: P301L tau mutant sample. Load: 50ug. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight. pSer202/pThr205 was detected. Total tau was detected using mouse anti-tau antibody (clone HT7). The bar graph on the right shows quantification of pSer202/pThr205 compared to total tau in each sample. Courtesy of: Francesco Paonessa.



ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Tissue: iPSC-derived cortical excitatory neurons. Species: Human. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight. Secondary Antibody: Donkey anti-rabbit: Alexa Fluor 488 at 1:1000. Counterstain: DAPI. A) iPSC-derived neurons from non-demented control (NDC). B) iPSC-derived neurons from subject with P301L MAPT mutation. Images acquired using an automated Opera Phoenix system. Each field of view is a max projection from 10 planes of 1 um stacks.. Courtesy of: Francesco Paonessa.

ADDITIONAL INFORMATION

Related Product Information for anti-Tau antibody	Alzheimer's Disease (AD) is the most common neurodegenerative disease, affecting 10% of seniors over the age of 65 (1). It was named after Alois Alzheimer, a German scientist who discovered tangled bundles of fibrils where neurons had once been in the brain of a deceased patient in 1907 (2). Tau (tubulin-associated unit) is normally located in the axons of neurons where it stabilizes microtubules. Tauopathies such as AD are characterized by neurofibrillary tangles containing hyperphosphorylated tau fibrils (3).
Product Categories/Family for anti-Tau antibody	Alzheimer's Disease; Axon Markers; Cell Markers; Cell Signaling; Cytoskeleton; Microtubules; MT Associated Proteins; Neurodegeneration; Neuron Markers; Neuroscience; Tangles & Tau; Antibodies
References	1. Alzheimer, A. Über eine eigenartige Erkrankung der Hirnrinde. Allg. Z. Psychiatr. Psych.-Gerichtl. Med. 64, 146-148 (1907). 2. Matsumoto, G. et al. (2018). Int J Mol Sci. 19, 1497.

NCBI AND UNIPROT INFORMATION

NCBI GI #	294862258
NCBI GeneID	4137
NCBI Accession #	NP_001116538.2
NCBI GenBank Nucleotide #	NP_001116538.2
UniProt Accession #	P10636
NCBI Official Full Name	microtubule-associated protein tau isoform 6
NCBI Official Synonym Full Names	microtubule associated protein tau
NCBI Official Symbol	MAPT
NCBI Official Synonym Symbols	TAU; MSTD; PPND; DDPAC; MAPTL; MTBT1; MTBT2; FTDP-17; PPP1R103
NCBI Protein Information	microtubule-associated protein tau
UniProt Protein Name	Microtubule-associated protein tau

UniProt Gene Name	MAPT
UniProt Synonym Gene Names	MAPTL; MTBT1; TAU; PHF-tau
UniProt Entry Name	TAU_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tau-antibody-clone-ah36-immunofluorescence-immunocytochemistry-dot-blot-western-blot-elisa/253982>