Datasheet for ABIN6932903

anti-tau antibody (pSer202, pThr205) (HRP)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	tau
Binding Specificity:	pSer202, pThr205
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This tau antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Dot Blot (DB)

Product Details

Immunogen:	Synthetic peptide of Human Phospho Tau (Ser202/Thr205)
Clone:	AH36
Isotype:	IgG
Specificity:	Expressed in neurons.,Detects ~79 kDa.
Cross-Reactivity:	Human, Mouse
Purification:	Affinity Purified

Target Details

Target:	tau

Target Details

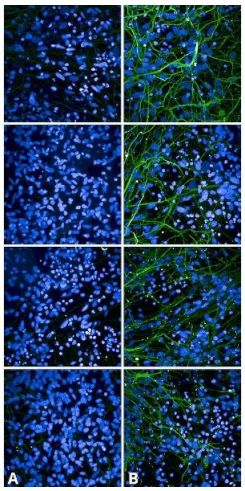
Alternative Name:	Tau (tau Products)
Background:	Alzheimer's Disease (AD) is the most common neurodegenerative disease, affecting 10 % of seniors over the age of 65 (1). It was named after Alois Alzheimer, a German scientist who discovered tangled bundles of fibrils where neurons had once been in the 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).
Gene ID:	4137
UniProt:	P10636

Application Details

Application Notes:	• WB (1:500) • ICC/IF (1:500) • IHC (1:500) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:500 dilution of ABIN6932903 was sufficient for detection of Tau in 10 µg Baculovirus by dot blot analysis using Goat Anti-Rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

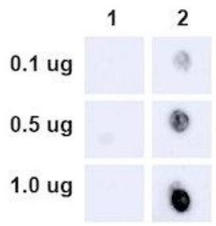
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % Sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



Immunocytochemistry

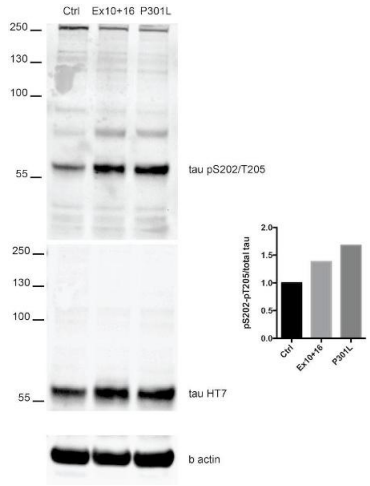
Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36 (ABIN6932903). Tissue: iPSC-derived cortical excitatory neurons. Species: Human. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody (ABIN6932903) at 1:500 for Overnight. Secondary Antibody: 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 µm stacks.



1: Tau 2N4R P301S (*E.coli* expressed, unphosphorylated)
2: Tau 2N4R P301S (*Baculovirus* expressed, phosphorylated)

Dot Blot

Image 2. Dot Blot analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36 (ABIN6932903). Species: E. Coli, Baculovirus. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody (ABIN6932903) at 1:500. Secondary Antibody: Goat anti-rabbit IgG:HRP.



Western Blotting

Image 3. Western Blot analysis of Human iPSC-derived cortical neurons showing detection of Tau protein using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36 (ABIN6932903). Lane 1: MW ladder. Lane 2: Control (non-disease) line. Lane 2: Ex10+16 tau mutant sample. Lane 3: P301L tau mutant sample. Load: 50 µg. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody (ABIN6932903) at 1:500 for Overnight. pSer202/pThr205 was detected using ABIN6932903. 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.