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Datasheet for ABIN6952077
anti-tau antibody (Atto 594)

3 Images

Overview

Quantity:	100 µg
Target:	tau
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This tau antibody is conjugated to Atto 594
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Dot Blot (DB)

Product Details

Immunogen:	Human Recombinant Tau441 (2N4R), P301S mutant Protein Pre-formed Fibrils
Clone:	1D5
Isotype:	IgG1
Specificity:	Expressed in neurons., Detects Multiple Bands. Antibody detects monomer under denaturing conditions but preferentially detects fibril under native conditions (dot blot).
Cross-Reactivity:	Human, Mouse
Purification:	Protein G Purified

Target Details

Target:	tau
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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). There are six isoforms of tau in the adult human brain: three with four repeat units (4R) and three with three repeat units (3R) (4). 2N4R, or Tau-441 is the full length tau protein. P301S is a mutation encoded by exon 10 (4) that impairs the ability of tau to assemble microtubules (5).

NCBI Accession: [NP_005901](#)

UniProt: [P10636](#)

Application Details

Application Notes:

- WB (1:1000)
- optimal dilutions for assays should be determined by the user.

Comment: A 1:1000 dilution of ABIN6952077 was sufficient for detection of Tau 2N4R P301S Fibril in 20 ug of Mouse Brain by ECL immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

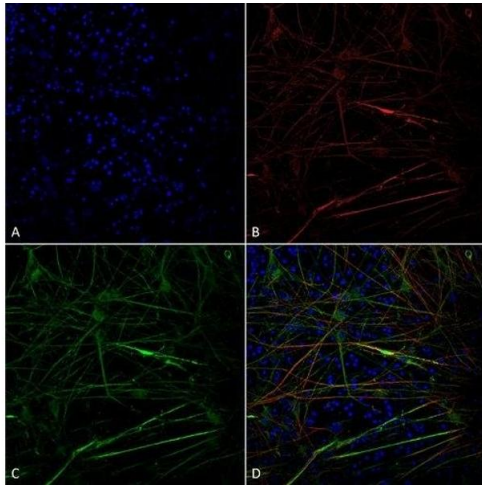
Buffer: PBS pH 7.4, 50 % glycerol, 0.09 % Sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

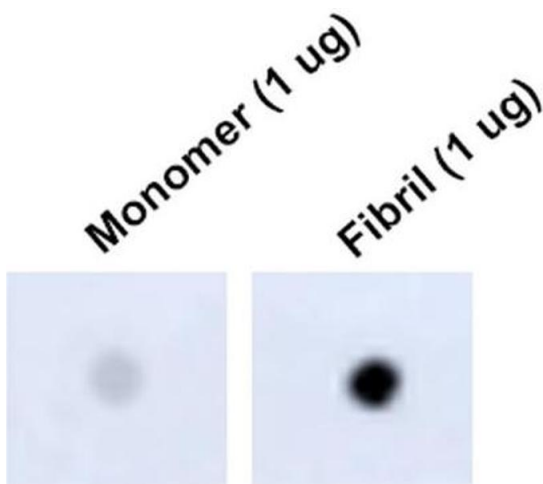
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



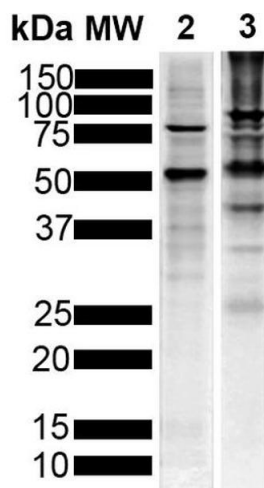
Immunofluorescence

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Tau Monoclonal Antibody, Clone 1D5 (ABIN6952077). Tissue: iPSC-derived neurons. Species: Human. Fixation: 4 % PFA. Primary Antibody: Mouse Anti-Tau Monoclonal Antibody (ABIN6952077) at 1:100 for Overnight at 4 °C. Counterstain: DAPI at 1:5000 for 5 minutes at RT in the dark. Magnification: 40X. Courtesy of: Francesco Paonessa.



Dot Blot

Image 2. Dot Blot analysis using Mouse Anti-Tau Monoclonal Antibody, Clone 1D5 (ABIN6952077). Tissue: Recombinant Protein. Species: Human. Primary Antibody: Mouse Anti-Tau Monoclonal Antibody (ABIN6952077) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:5000 for 1 hour at RT with shaking.



Western Blotting

Image 3. Western Blot analysis of Human Breast Cancer Cell line and Mouse Brain showing detection of Tau protein using Mouse Anti-Tau Monoclonal Antibody, Clone 1D5 (ABIN6952077). Lane 1: MW Marker. Lane 2: Human T-47d (10 µg). Lane 3: Mouse Brain (20 µg). Block: 5 % Skim Milk powder in TBST. Primary Antibody: Mouse Anti-Tau Monoclonal Antibody (ABIN6952077) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:5000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT.