Datasheet for ABIN2857003

anti-MAPT antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	MAPT
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPT antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Tau. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to Tau (microtubule-associated protein tau) Tau antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	MAPT

Target Details

Alternative Name:	microtubule associated protein tau (MAPT Products)
Molecular Weight:	79 kDa
Gene ID:	4137
UniProt:	P10636
Pathways:	MAPK Signaling, Microtubule Dynamics, M Phase, Regulation of Cell Size

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: SK-N-SH , IMR32 , SK-N-AS
Restrictions:	For Research Use only

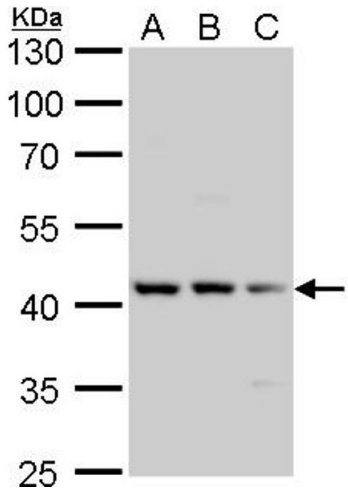
Handling

Format:	Liquid
Concentration:	1.03 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

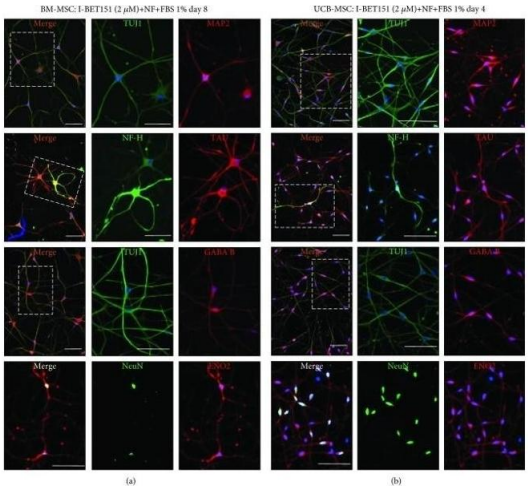
Product cited in:	Cortés-Medina, Pasantes-Morales, Aguilera-Castrejon, Picones, Lara-Figueroa, Luis, Montesinos, Cortés-Morales, De la Rosa Ruiz, Hernández-Estévez, Bonifaz, Alvarez-Perez, Ramos-Mandujano: "Neuronal Transdifferentiation Potential of Human Mesenchymal Stem Cells from Neonatal and Adult Sources by a Small Molecule Cocktail." in: **Stem cells international**, Vol. 2019, pp. 7627148, (2019) (PubMed).

Images



Western Blotting

Image 1. WB Image Tau antibody detects Tau protein by Western blot analysis. A. 30 µg U87-MG whole cell lysate/extract B. 30 µg SK-N-SH whole cell lysate/extract C. 30 µg IMR32 whole cell lysate/extract D. 30 µg SK-N-AS whole cell lysate/extract 10 % SDS-PAGE Tau antibody , dilution: 1:500



Immunofluorescence (Cultured Cells)

Image 2. Presence of mature neuronal markers after induction with ICFRYA plus neurotrophic factors and FBS in UCB- and BM-MSCs. (a, b) Representative pictures of TUJ1, MAP2, TAU, NF-H, GABA B, ENO2, and NeuN positive cells after neuronal induction. The images on A show the merge, and the images on B and C show the individual signal for each antibody. (a) BM-MSCs after 8 days of induction and (b) UCB-MSCs after 4 days of induction. (c) Quantification of cells positive for the neuronal markers induced by the ICFRYA cocktail plus neurotrophic factors. The data are presented as the mean ± SEM ($p < 0.05$, Student's t-test) of n = 8 from three independent experiments. Scale bars represent 100µm. - figure provided by CiteAb. Source: PMID31065279