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Datasheet for 200-901-X29

TAU Antibody

Overview

Description:	Anti-TAU (CHICKEN) Polyclonal Antibody - 200-901-X29
Item No.:	200-901-X29
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Rat
Host Species:	Chicken

Product Details

Background:	Tau is a key microtubule-associated protein that plays an important role in the formation of microtubules in axons. Six tau isoforms have been identified as products of a single gene produced by alternative mRNA splicing. Tau mutations have been implicated in many neurodegenerative disorders such as Alzheimer's disease (AD), Pick's disease and progressive supranuclear palsy. Tau Antibody is ideal for researchers interested in neuroscience research.
Synonyms:	Microtubule-associated protein tau, Neurofibrillary tangle protein, Pired helical filament-tau, PHF-tau
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	MAPT
Reactivity:	Human, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-Tau Antibody was produced in chickens by repeated immunizations with a recombinant full length human tau expressed in and purified from E.Coli.
Purity/Specificity:	Anti-Tau Antibody was purified by total IgY fraction.
Relevant Links:	

- UniProtKB - P10636
- GeneID - 4137
- NCBI - P10636

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-TAU Antibody is tested for Western Blot, immunocytochemistry, immunohistochemistry, and it is specific for the ~48, 65 & 75 kDa tau isoforms. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000
IF:	1:1,000
IHC:	1:1,000
WB:	1:10,000

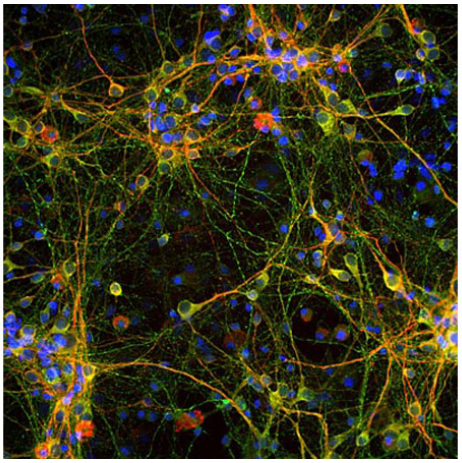
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

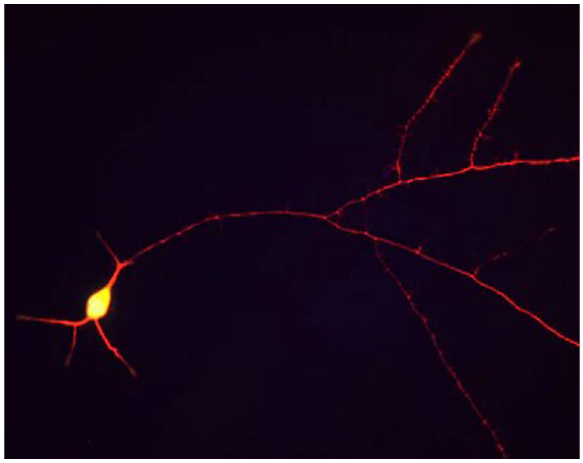
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

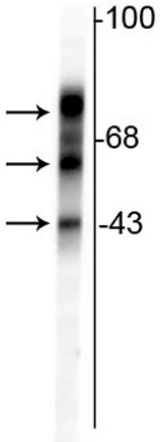
Images



Immunofluorescence Microscopy
Immunostaining of cultured E20 rat cortical neurons and glia stained with anti-TAU antibody (p/n 200-901-X29, green, 1:2000) and anti-MAP2 (red). The blue is DAPI staining nuclear DNA. Anti-TAU labels perikarya, dendrites, axons of neurons while anti-MAP2 only labels dendrites and perikarya of neurons. Where they overlap they appear orange-yellow.



Immunofluorescence Microscopy
Immunostaining of cultured rat hippocampal neurons stained with anti-TAU antibody (p/n 200-901-X29, red, 1:1000) along the neuronal processes.



Western Blot
Western Blot of Anti-TAU antibody.
Rat cortical lysate showing specific immunolabeling of the ~48 kDa, ~65 kDa & ~75 kDa tau isoforms.

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