

Tau (Phospho Ser396) Rabbit mAb (AR1870)

Key Features

Host Species:	Rabbit
Reactivity:	Human, Mouse, Rat
Applications:	WB, IHC, IF, ELISA
Isotype:	IgG, Kappa
MW:	79kDa (Calculated) 55-130kDa (Observed)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
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Immunogen Information

Specificity	<p>Tau (Phospho Ser396) Antibody detects endogenous levels of Tau protein only when phosphorylated at S396. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): YKsPV</p>
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Target Information

Gene name	MAPT
Protein Name	Microtubule-associated protein tau (Neurofibrillary tangle protein) (Paired helical filament-tau)(PHF-tau)

Organism	Gene ID	UniProt ID
Human	4137	P10636
Mouse	17762	P10637
Rat		P19332

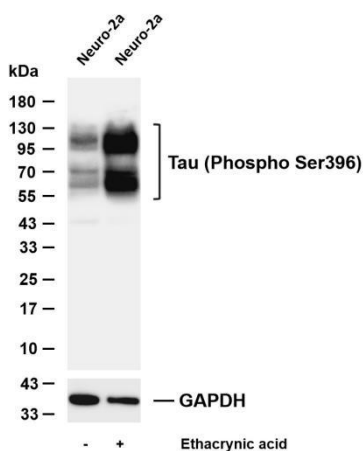
Cellular Localization

Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm, cytoskeleton. Cell projection, axon. Cell projection, dendrite. Secreted. Mostly found in the axons of neurons, in the cytosol and in association with plasma membrane components (PubMed:10747907). Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059).

Tissue specificity

Expressed in neurons. Isoform PNS-tau is expressed in the peripheral nervous system while the others are expressed in the central nervous system.

Validation Data



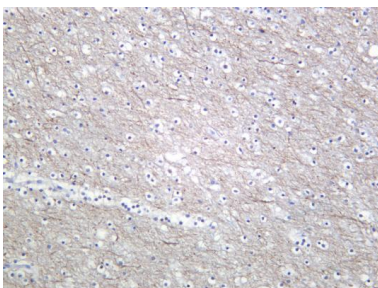
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Tau (Phospho Ser396) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: Neuro-2a

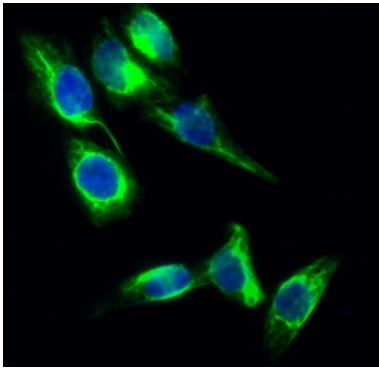
Lane 2: Neuro-2a was treated with Ethacrynic acid(50μM) for 2 hours

Predicted band size: 79kDa

Observed band size: 55-130kDa

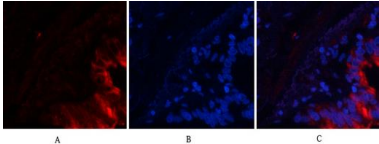


Human brain was stained with anti-Tau (Phospho Ser396) rabbit antibody



Immunofluorescence analysis of HeLa cell.

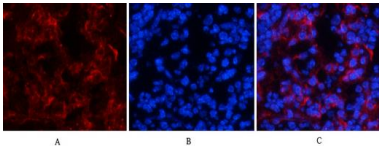
1. Tau (phospho Ser396) antibody (green) was diluted at 1:200(4° overnight).
2. Goat Anti Rabbit AlexaFluor 488 was diluted at 1:1000(room temperature, 50min).
3. DAPI(blue) 10min.



Immunofluorescence analysis of human-lung tissue.

1. Tau (phospho Ser396) primary antibody(red) was diluted at 1:200(4°C, overnight).
2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).
3. Picture B: DAPI(blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Immunofluorescence analysis of mouse-spleen tissue.

1. Tau (phospho Ser396) primary Antibody(red) was diluted at 1:200(4°C, overnight).
2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).
3. Picture B: DAPI(blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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