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Phospho-Tau-S396 Rabbit mAb

Catalog No.: AP1659 Recombinant

Basic Information

Observed MW
50-80 kDa

Calculated MW
33-81 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IF-F,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC4066

Background

This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes complex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and neuron type. MAPT gene mutations have been associated with several neurodegenerative disorders such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degeneration and progressive supranuclear palsy.

Recommended Dilutions

WB	1:200000 - 1:700000
IP	0.1 μg - 1 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:10000 - 1:40000
IF-F	1:1000 - 1:8000
IHC-P	1:30000 - 1:120000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
4137

Swiss Prot
P10636-8

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

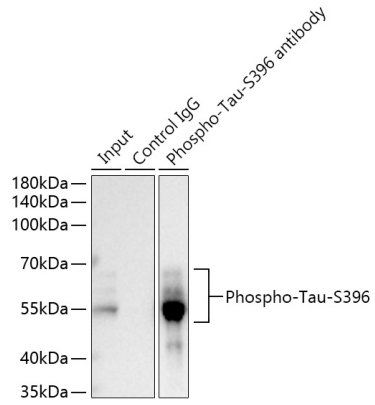
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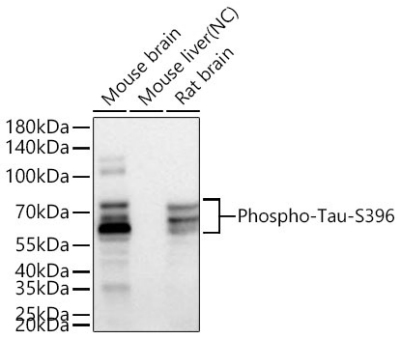
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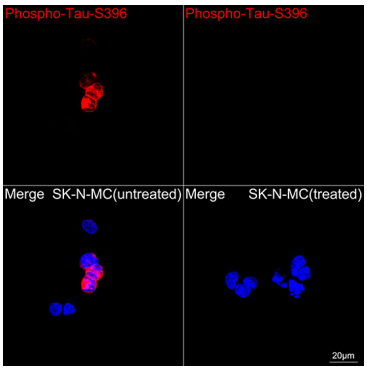
Validation Data



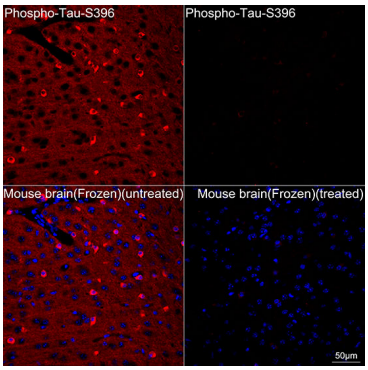
Immunoprecipitation of Phospho-Tau-S396 Rabbit mAb from 300 µg extracts of Mouse brain tissue was performed using 0.14 µg of Phospho-Tau-S396 Rabbit mAb (AP1659). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-Tau-S396 Rabbit mAb (AP1659) at a dilution of 1:50000.



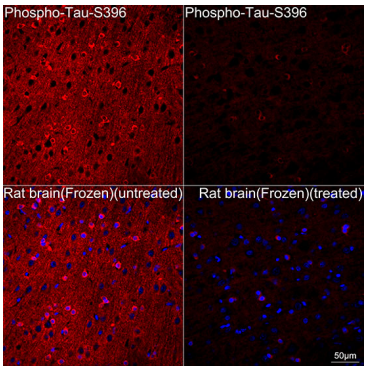
Western blot analysis of various lysates using Phospho-Tau-S396 Rabbit mAb (AP1659) at 1:700000 dilution incubated overnight at 4℃.|Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.|Lysates/proteins: 25 µg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit (RM00020).|Negative control (NC): Mouse liver.|Exposure time: 45 s.



Confocal imaging of SK-N-MC cells (untreated) and SK-N-MC cells (treated with λPP) using Phospho-Tau-S396 Rabbit mAb (AP1659, dilution 1:10000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

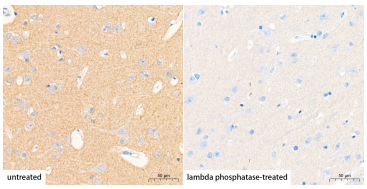


Confocal imaging of frozen sections Mouse brain tissue (untreated) and Mouse brain tissue (treated with λpp) using Phospho-Tau-S396 Rabbit mAb (AP1659, dilution 1:7100) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

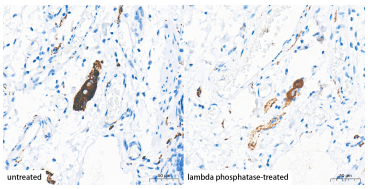


Confocal imaging of frozen sections Rat brain tissue (untreated) and Rat brain tissue (treated with λpp) using Phospho-Tau-S396 Rabbit mAb (AP1659, dilution 1:7100) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human brain tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Tau-S396 Rabbit mAb (AP1659) at a dilution of 1:57000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue, untreated (left) and lambda phosphatase-treated (right), using Phospho-Tau-S396 Rabbit mAb (AP1659) at a dilution of 1:57000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.