

Product Datasheet

Tau (pSer202/ pThr205) Antibody (APC) (orb612742)

Catalog Number	orb612742
Category	Antibodies
Description	Rabbit monoclonal antibody against Tau conjugated to APC
Target	Tau (pSer202/ pThr205)
Clonality	Monoclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	APC
Reactivity	Human, Mouse
Concentration	1 mg/ml
Buffer/Preservatives	95.46mM Phosphate, 2.48mM MES and 2mM EDTA
Purification	Affinity Purified
Immunogen	Synthetic peptide of Human Phospho Tau (Ser202/Thr205)
UniProt ID	P10636
MW	79 kDa
Tested applications	DOT, ELISA, ICC, IF, IHC, WB
Dilution range	WB (1:500), ICC/IF (1:500); IHC (1:500)

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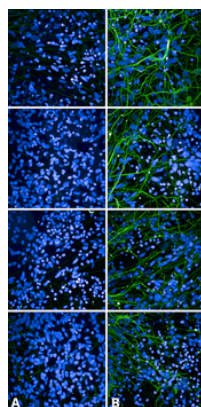
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Application notes	A 1:500 dilution of SMC-601 was sufficient for detection of Tau in 10 µg Baculovirus by dot blot analysis using Goat Anti-Rabbit IgG:HRP as the secondary antibody.
Specificity	Detects ~79 kDa.
Clone Number	AH36
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	4137
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Tissue: iPSC-derived cortical excitatory neurons. Species: Human. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight. Secondary Antibody: Donkey anti-rabbit: Alexa Fluor 488 at 1:1000. Counterstain: DAPI. A) iPSC-derived neurons from non-demented control (NDC). B) iPSC-derived neurons from subject with P301L MAPT mutation. Images acquired using an automated Opera Phoenix system. Each field of view is a max projection from 10 planes of 1 µm stacks.

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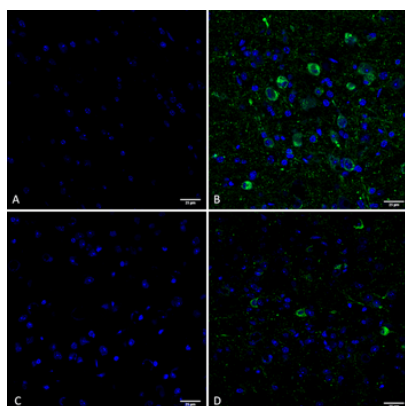
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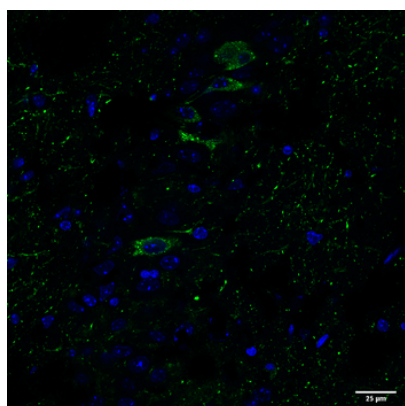
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Immunohistochemistry analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Tissue: Brain slice. Species: Mouse. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight at 4°C. Secondary Antibody: Anti-Rabbit IgG: AlexaFluor 488. Counterstain: DAPI at 1:1000 for 5 min. (A) Pons of Non-Tg mouse. (B) Pons of P301SxUBQLN2 Tg mouse. (C) Prefrontal cortex of Non-Tg mouse. (D) Prefrontal cortex of P301SxUBQLN2 Tg mouse. IHC Protocol: 1. Post-fix brains in 4% PFA for 24 hours and put through a 10-30% sucrose gradient. 2. Section by cryostat at 10 μ m thickness. 3. Fix in MeOH 15 min. 4. 3x10 min wash in PBS 1X. 5. Heat via microwave in 10mM Citrate Buffer, pH 6 for 4 min at power level 20. 6. Cool in solution for 20 min. 7. Wash 2x5 min in PBS. 8. Permeabilize in 0.5% Triton-X 100 in PBS 10 min. 9. Wash in PBS 10 min. 10. Block for 1 hour in 5% goat serum. 11. Incubate primary Ab (at 1:500) in blocking solution overnight at 4°C. 12. Wash 3x10 min in PBS. 13. Incubate in secondary Ab Rb IgG Alexa-fluor 488. 14. Wash 3x10 min in PBS. 15. Incubate in DAPI 1:1000 for 5 min. 16. Wash 3x5 min. 17. Coverslip with Prolong-Gold.



Immunohistochemistry analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Tissue: Brain slice. Species: Mouse. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight at 4°C. Secondary Antibody: Anti-Rabbit IgG: AlexaFluor 488. Counterstain: DAPI at 1:1000 for 5 min. CA3 Region of P301SxUBQLN2 Tg mouse. IHC Protocol: 1. Post-fix brains in 4% PFA for 24 hours and put through a 10-30% sucrose gradient. 2. Section by cryostat at 10 μ m thickness. 3. Fix in MeOH 15 min. 4. 3x10 min wash in PBS 1X. 5. Heat via microwave in 10mM Citrate Buffer, pH 6 for 4 min at power level 20. 6. Cool in solution for 20 min. 7. Wash 2x5 min in PBS. 8. Permeabilize in 0.5% Triton-X 100 in PBS 10 min. 9. Wash in PBS 10 min. 10. Block for 1 hour in 5% goat serum. 11. Incubate primary Ab (at 1:500) in blocking solution overnight at 4°C. 12. Wash 3x10 min in PBS. 13. Incubate in secondary Ab Rb IgG Alexa-fluor 488. 14. Wash 3x10 min in PBS. 15. Incubate in DAPI 1:1000 for 5 min. 16. Wash 3x5 min. 17. Coverslip with Prolong-Gold.

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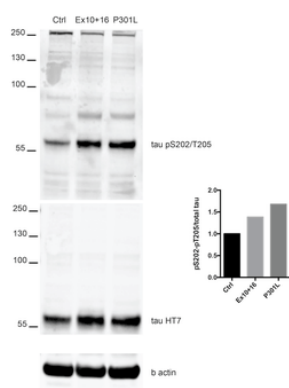
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Dot Blot analysis using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Species: E. Coli, Baculovirus. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500. Secondary Antibody: Goat anti-rabbit IgG:HRP.

- 1: Tau 2N4R P301S (*E.coli* expressed, unphosphorylated)
- 2: Tau 2N4R P301S (*Baculovirus* expressed, phosphorylated)



Western Blot analysis of Human iPSC-derived cortical neurons showing detection of Tau protein using Rabbit Anti-Tau Monoclonal Antibody, Clone AH36. Lane 1: MW ladder. Lane 2: Control (non-disease) line. Lane 2: Ex10+16 tau mutant sample. Lane 3: P301L tau mutant sample. Load: 50ug. Primary Antibody: Rabbit Anti-Tau Monoclonal Antibody at 1:500 for Overnight. Total tau was detected using mouse anti-tau antibody (clone HT7). The bar graph on the right shows quantification of pSer202/pThr205 compared to total tau in each sample.

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