Full Uncropped Western Blot Membranes and Chemiluminescence Captures

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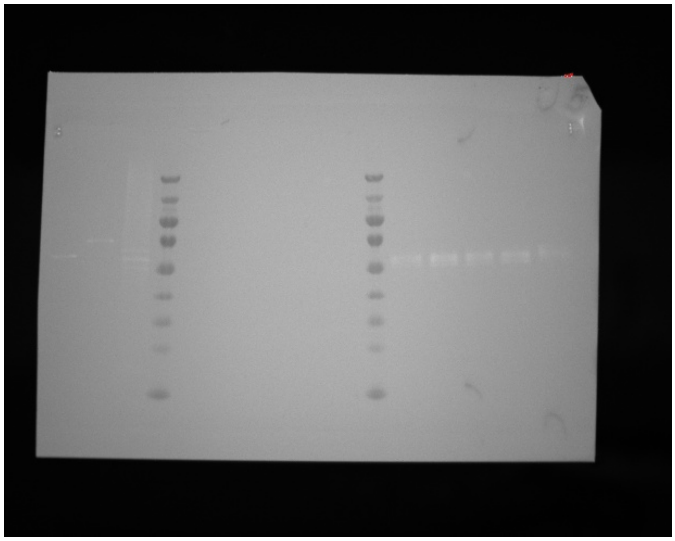
Title: A C57BL/6NJ Congenic Background Delays Neurodegeneration, Gliosis and Synaptic Loss in the PS19 Tauopathy Model
Journal: *Acta Neuropathologica Communications*

Supplementary File: Full Uncropped Gels and Blots
This document contains the uncropped original Western blot membranes (showing molecular weight ladder markers) alongside their corresponding chemiluminescence exposure captures for all cropped gel panels in Figure 2 and Supplementary Figure S1.

Lane #	Sample Description
Control 1	2N4R Recombinant Tau control
Control 2	Phosphorylated 2N4R Recombinant Tau control (p2N4R)
Control 3	Human Alzheimer's Disease brain sample (AD-tau)
L	Prestained Molecular Weight Ladder (170, 130, 95, 72, 55, 43, 34, 26, 17 kDa)
C57BL/6NJ (1-5)	C57BL/6NJ Wildtype Control mice across age series (13w, 19w, 26w, 32w, 40w)
PS19NJ (1-5)	PS19NJ Transgenic mice across age series (13w, 19w, 26w, 32w, 40w)

Figure 2b: Total Brain Lysate (1S+2S) — Total Tau (DC25)

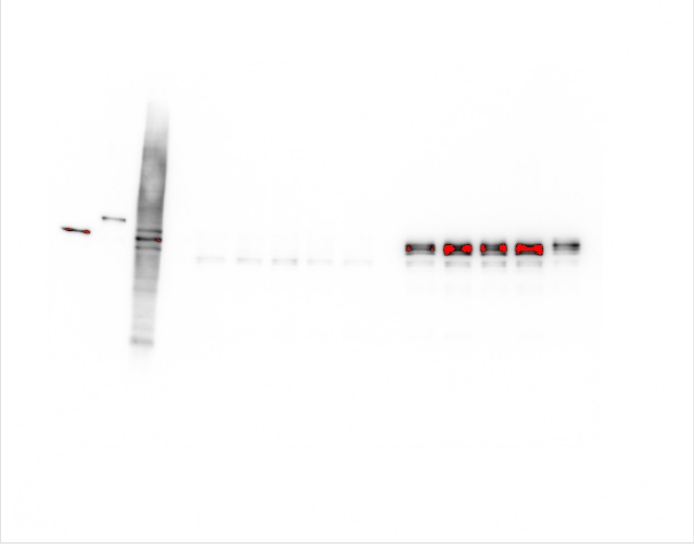
Target Epitope: DC25 (Total Tau) | **Fraction:** Total Brain Lysate (1S+2S)
Source Directory: brain lysate (S1+S2)/CHEMI_06112025_101709_DC25_2s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Figure 2d: Sarkosyl-Soluble Fraction (3S) — Total Tau (DC25)

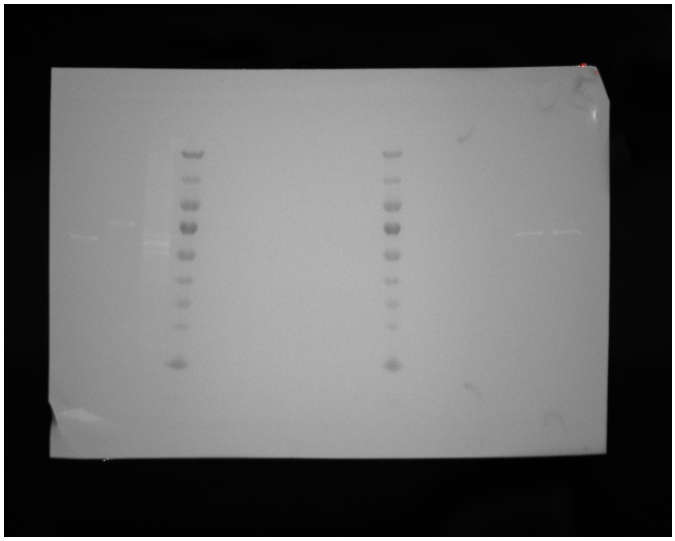
Target Epitope: DC25 (Total Tau) | **Fraction:** Sarkosyl-Soluble (3S)
Source Directory: sarkosyl soluble (S3)/CHEMI_05282025_100550_DC25_2s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Figure 2f: Sarkosyl-Insoluble Fraction (3P) — Total Tau (DC25)

Target Epitope: DC25 (Total Tau) | **Fraction:** Sarkosyl-Insoluble Pellet (3P)
Source Directory: sarkosyl insoluble (3P)/CHEMI_06212025_111557_DC25_2s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Figure 2h: Total Brain Lysate (1S+2S) — pTau Ser202/Thr205 (AT8)

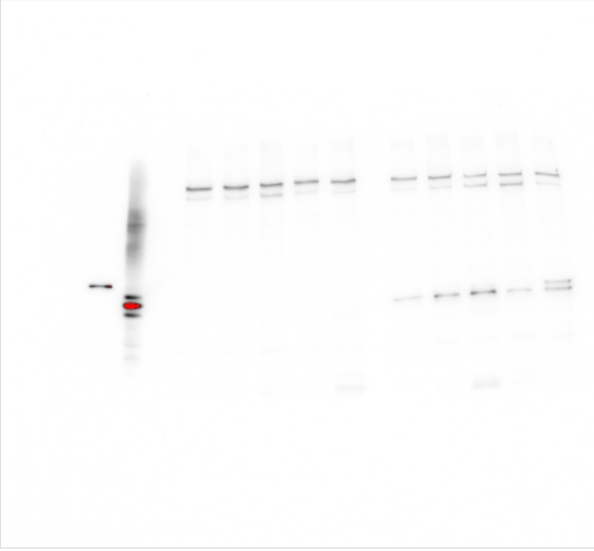
Target Epitope: AT8 (pSer202/pThr205) | **Fraction:** Total Brain Lysate (1S+2S)
Source Directory: brain lysate (S1+S2)/CHEMI_06112025_094329_AT8_6s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Figure 2j: Sarkosyl-Soluble Fraction (3S) — pTau Ser202/Thr205 (AT8)

Target Epitope: AT8 (pSer202/pThr205) | **Fraction:** Sarkosyl-Soluble (3S)
Source Directory: sarkosyl soluble (S3)/CHEMI_05282025_093214_AT8_6s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Figure 2l: Sarkosyl-Insoluble Fraction (3P) — pTau Ser202/Thr205 (AT8)

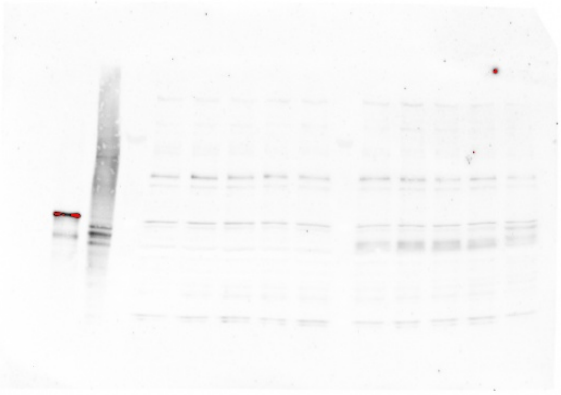
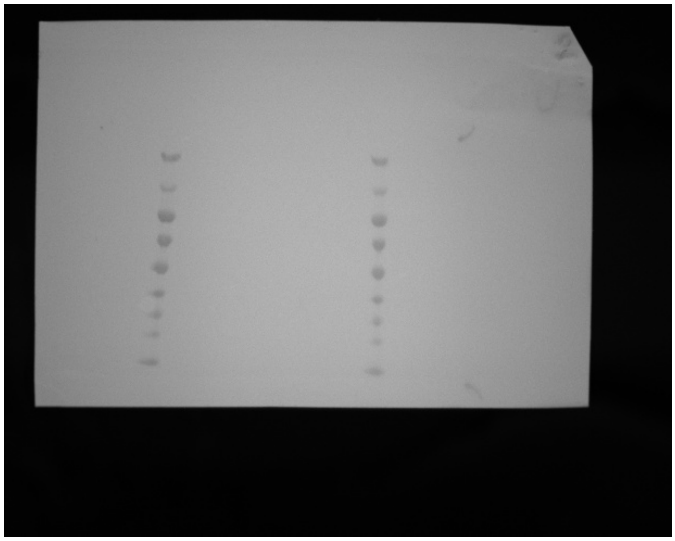
Target Epitope: AT8 (pSer202/pThr205) | **Fraction:** Sarkosyl-Insoluble Pellet (3P)
Source Directory: sarkosyl insoluble (3P)/CHEMI_06212025_105150_AT8_6s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1a: Total Brain Lysate (1S+2S) — pTau Ser262

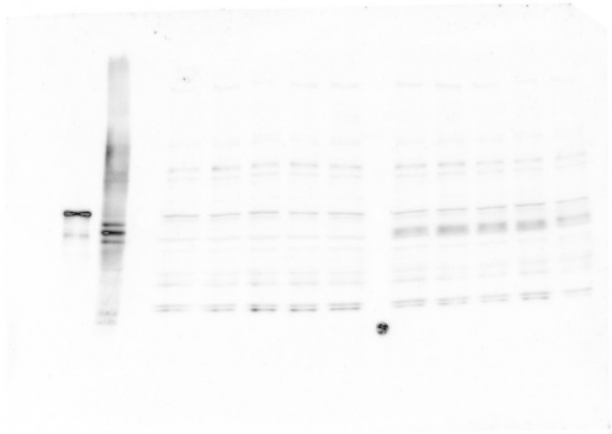
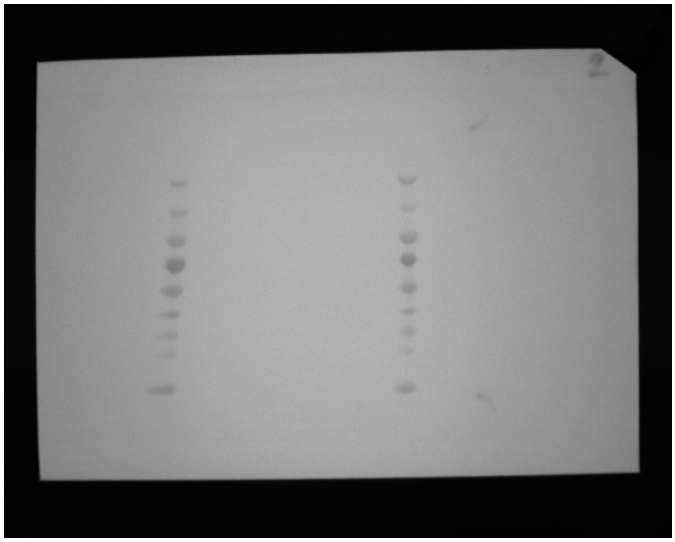
Target Epitope: pSer262 | **Fraction:** Total Brain Lysate (1S+2S)
Source Directory: brain lysate (S1+S2)/CHEMI_06112025_094952_p262_45s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1a: Sarkosyl-Soluble (3S) — pTau Ser262

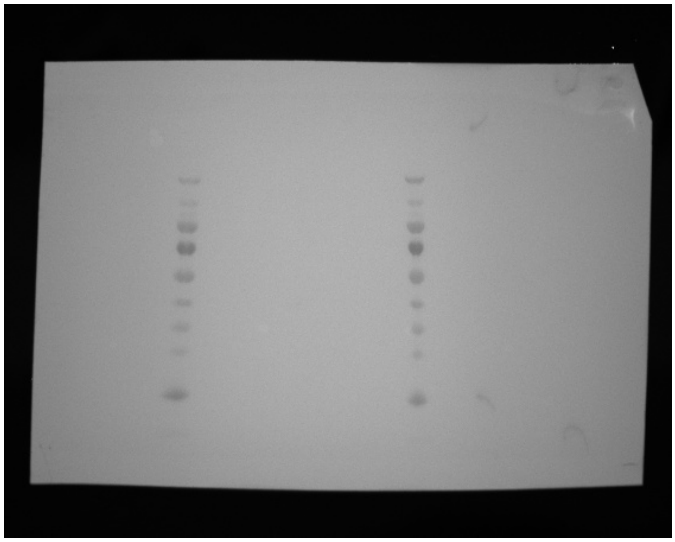
Target Epitope: pSer262 | **Fraction:** Sarkosyl-Soluble (3S)
Source Directory: sarkosyl soluble (S3)/CHEMI_05282025_094140_p262_45s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1a: Sarkosyl-Insoluble (3P) — pTau Ser262

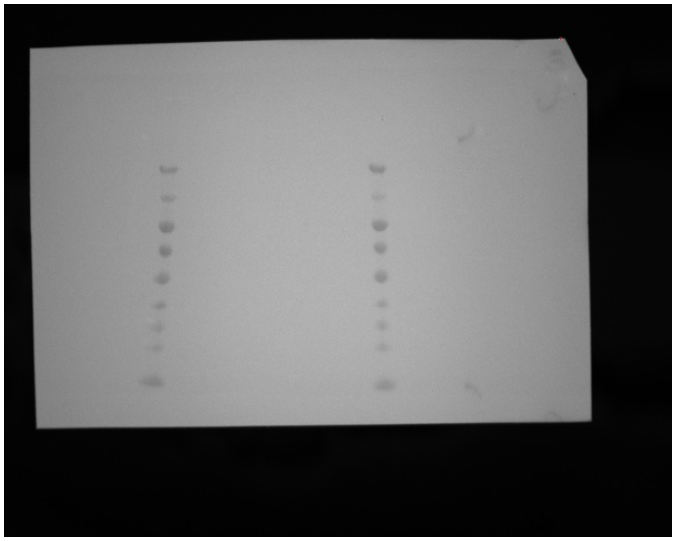
Target Epitope: pSer262 | **Fraction:** Sarkosyl-Insoluble Pellet (3P)
Source Directory: sarkosyl insoluble (3P)/CHEMI_06212025_105831_p262_45s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1b: Total Brain Lysate (1S+2S) — pTau Ser396

Target Epitope: pSer396 | **Fraction:** Total Brain Lysate (1S+2S)
Source Directory: brain lysate (S1+S2)/CHEMI_06112025_095631_p396_15s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1b: Sarkosyl-Soluble (3S) — pTau Ser396

Target Epitope: pSer396 | **Fraction:** Sarkosyl-Soluble (3S)
Source Directory: sarkosyl soluble (S3)/CHEMI_05282025_094935_p396_15s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1b: Sarkosyl-Insoluble (3P) — pTau Ser396

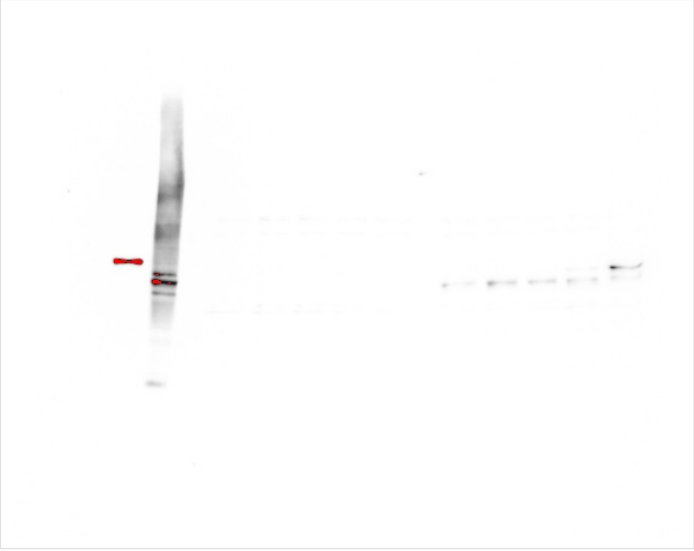
Target Epitope: pSer396 | **Fraction:** Sarkosyl-Insoluble Pellet (3P)
Source Directory: sarkosyl insoluble (3P)/CHEMI_06212025_110500_p396_15s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1c: Total Brain Lysate (1S+2S) — pTau Ser422

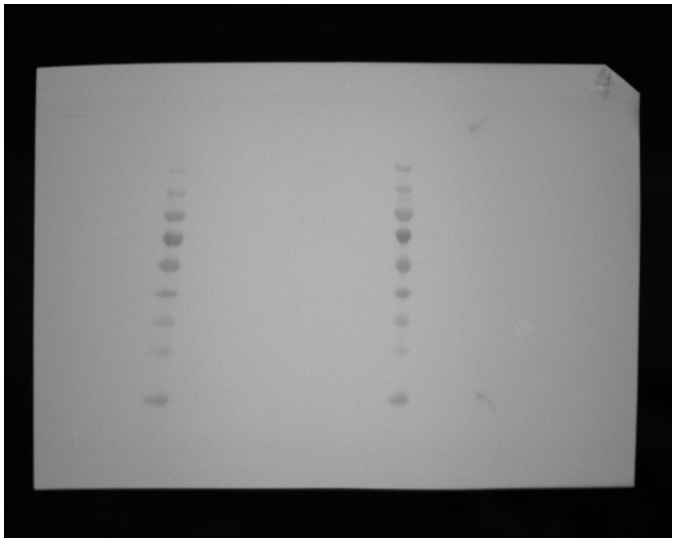
Target Epitope: pSer422 | **Fraction:** Total Brain Lysate (1S+2S)
Source Directory: brain lysate (S1+S2)/CHEMI_06112025_100706_p422_10s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1c: Sarkosyl-Soluble (3S) — pTau Ser422

Target Epitope: pSer422 | **Fraction:** Sarkosyl-Soluble (3S)
Source Directory: sarkosyl soluble (S3)/CHEMI_05282025_095749_p422_10s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)
	

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.

Supplementary Figure S1c: Sarkosyl-Insoluble (3P) — pTau Ser422

Target Epitope: pSer422 | **Fraction:** Sarkosyl-Insoluble Pellet (3P)
Source Directory: sarkosyl insoluble (3P)/CHEMI_06212025_111034_p422_10s

Chemiluminescence Exposure (Signal)	Visible Membrane (Molecular Weight Ladder)

Panel Annotation Notes: Prestained molecular weight ladder (L) positions correspond to 170, 130, 95, 72, 55, 43, 34, 26, and 17 kDa. C57BL/6NJ control and PS19NJ transgenic age series: 13, 19, 26, 32, and 39/40 weeks. The red box on the cropped manuscript figures corresponds to the main immunoreactive band(s) visible in these full-length captures.