

Supplementary Information

Alpha-synuclein overexpression is associated with early region-selective AQP4 remodeling

Jianbing Yu ^a, Sitong Li ^a, Haixin Liu ^a, Yuan Pan ^a, Yun Li ^a, Qiang Chen ^a, Ye Hua ^{b *}, Yi Fan ^{a *}

^a Jiangsu Key Laboratory of Neurodegeneration, Department of Pharmacology, Nanjing Medical University, Nanjing 211166, China

^b Department of Neurology, Wuxi No. 2 People's Hospital, Jiangnan University Medical Center, Wuxi 214000, China

***Corresponding authors:**

Yi Fan, MD, PhD; Email: yfan@njmu.edu.cn

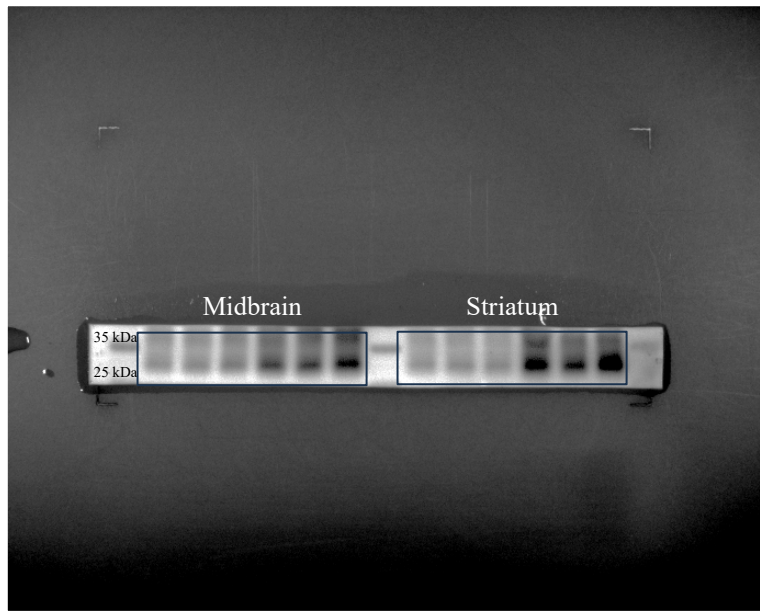
Ye Hua, MD, PhD; Email: 77819869@qq.com

Supplementary Table S1.

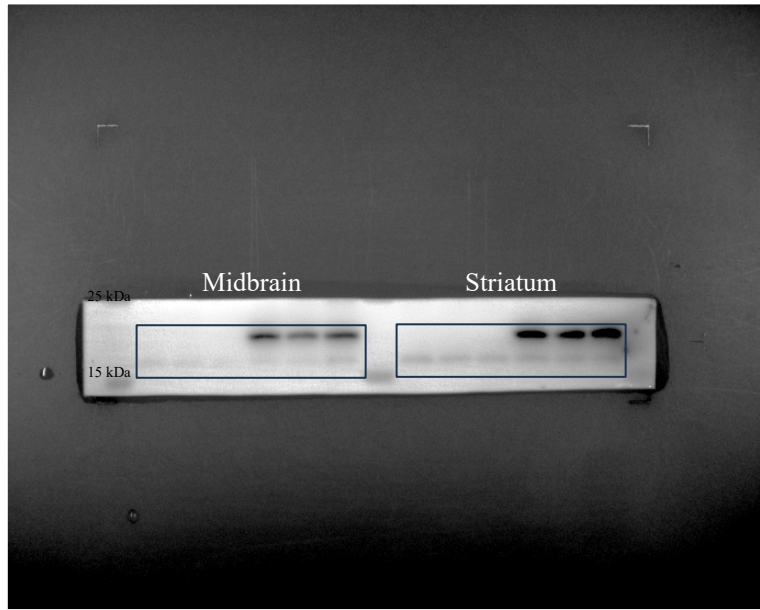
Antibody	Host / clone	Supplier	Catalog No.	Working dilution
Human α -synuclein	Rabbit	Abcam	ab138501	1:500
Aquaporin-4 (AQP4)	Rabbit	Alomone Labs	AQP-004	1:500
Tyrosine hydroxylase (TH)	Mouse	MilliporeSigma	T2928	1:1000
Glial fibrillary acidic protein (GFAP)	Rabbit	Oasisbiofarm	OB-PRB005	1:500
Total α -synuclein	Mouse	BD Biosciences	610787	1:500
pS129 α -synuclein	Mouse	Wako	015-25191	1:250
Synaptophysin (SYP)	Rabbit	Proteintech	17785-1-AP	1:1000
Postsynaptic density protein 95 (PSD95)	Rabbit	Abcam	ab18258	1:1000
β -Actin	Mouse	Yifeixue	YFMA0052	1:2000
Goat anti-mouse IgG (H+L), HRP-conjugated	Goat	Invitrogen	31430	1:2000
Goat anti-rabbit IgG (H+L), HRP-conjugated	Goat	Invitrogen	31460	1:2000
Donkey anti-rabbit IgG (H+L), Alexa Fluor 555	Donkey	Invitrogen	A31572	1:500

Supplementary Fig. S1. Uncropped Western blot images corresponding to the representative blots
Fig. 3A-B

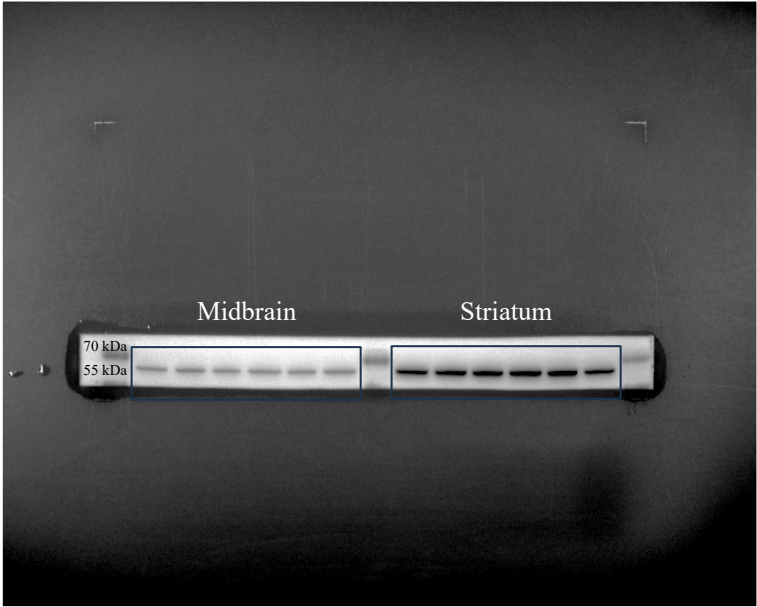
AQP4



α -Syn



TH



β -actin

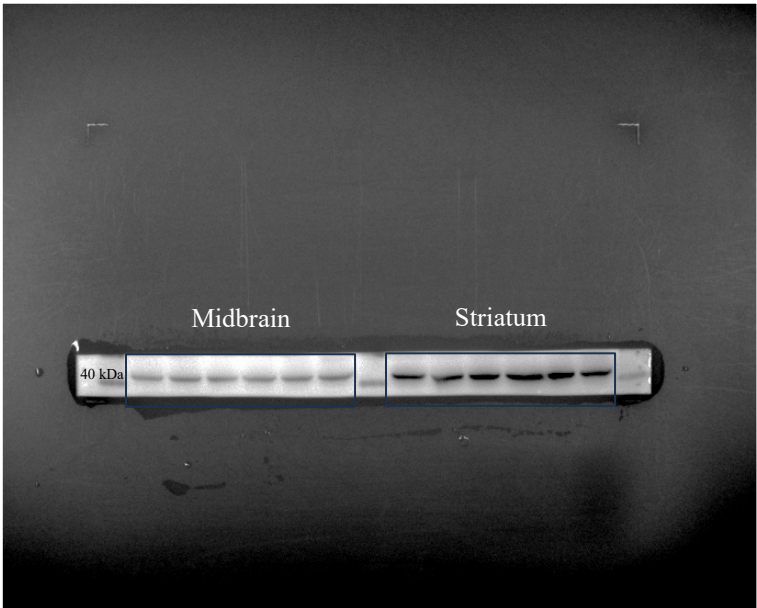
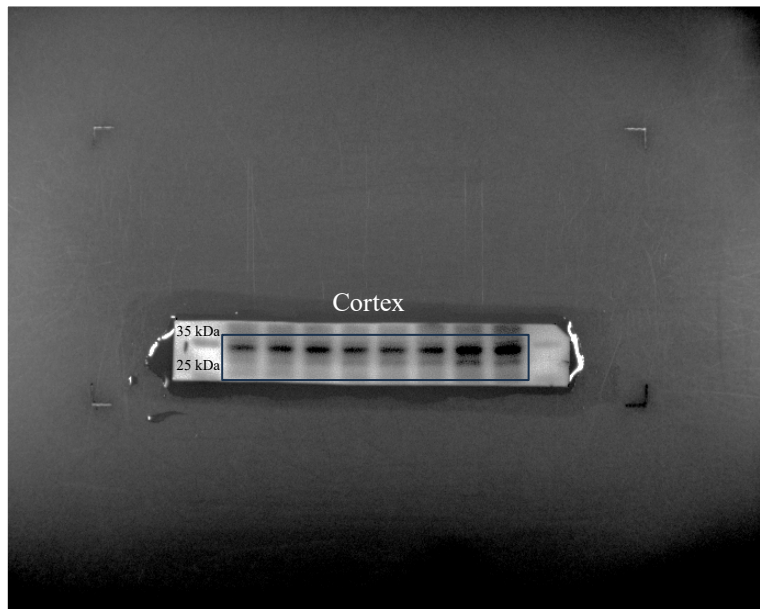
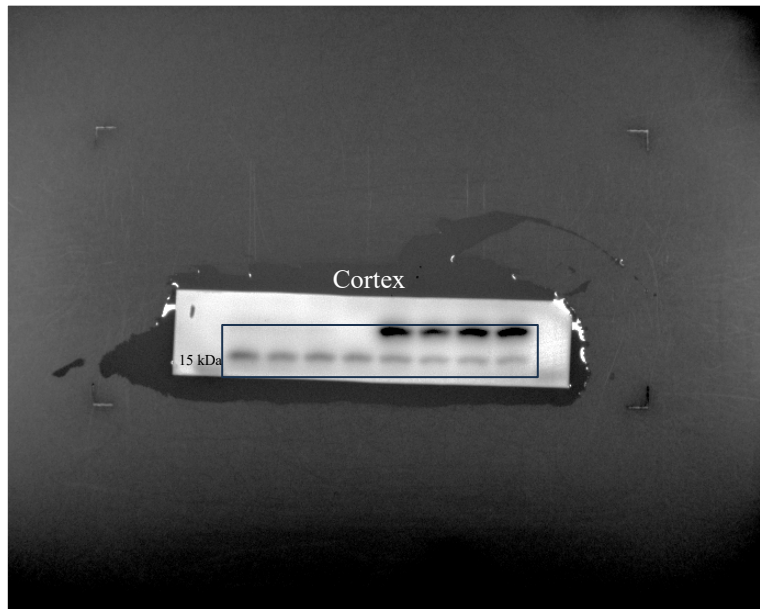


Fig. 3C

AQP4



α -Syn



β -actin

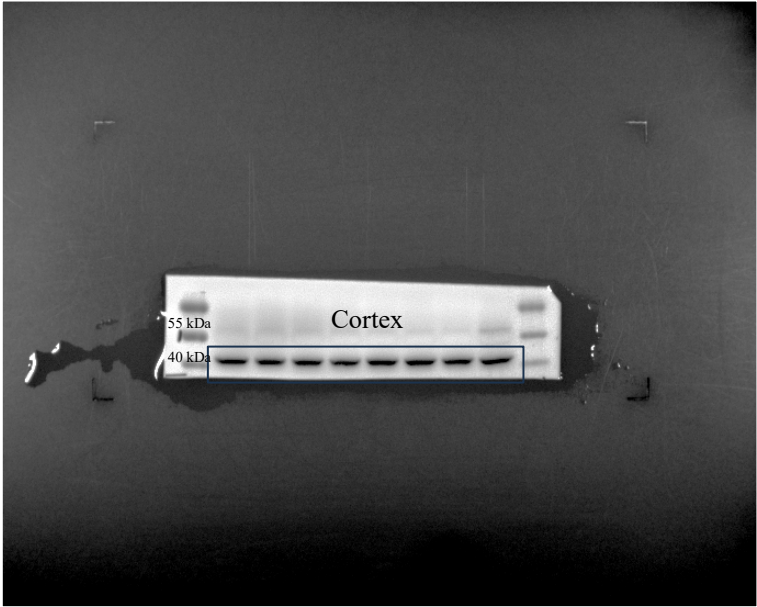
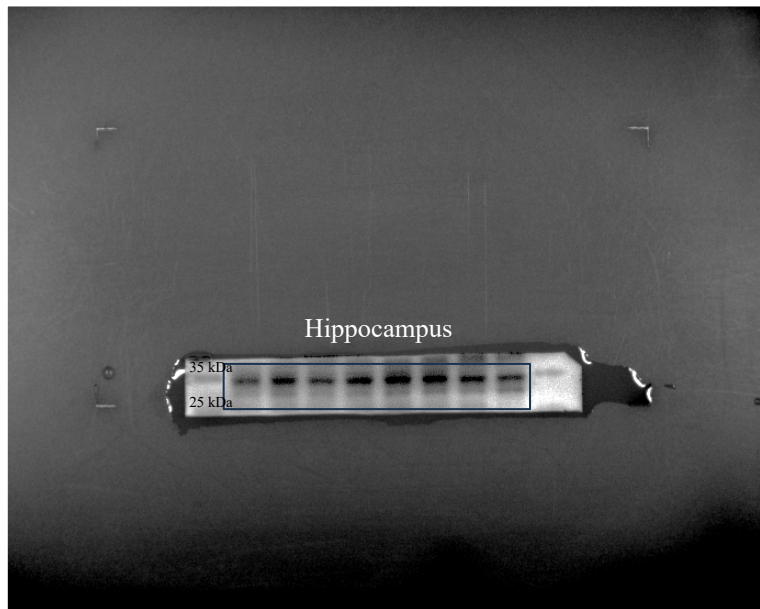
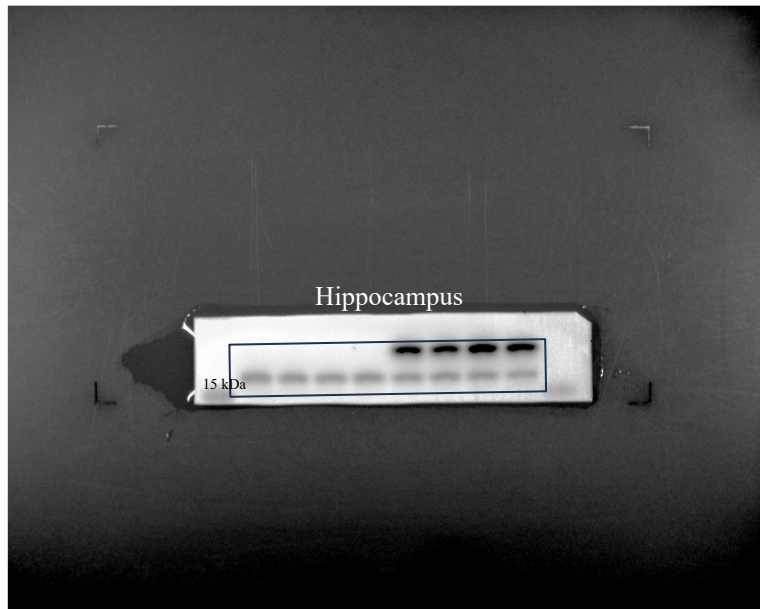


Fig. 3D

AQP4



α -Syn



β -actin

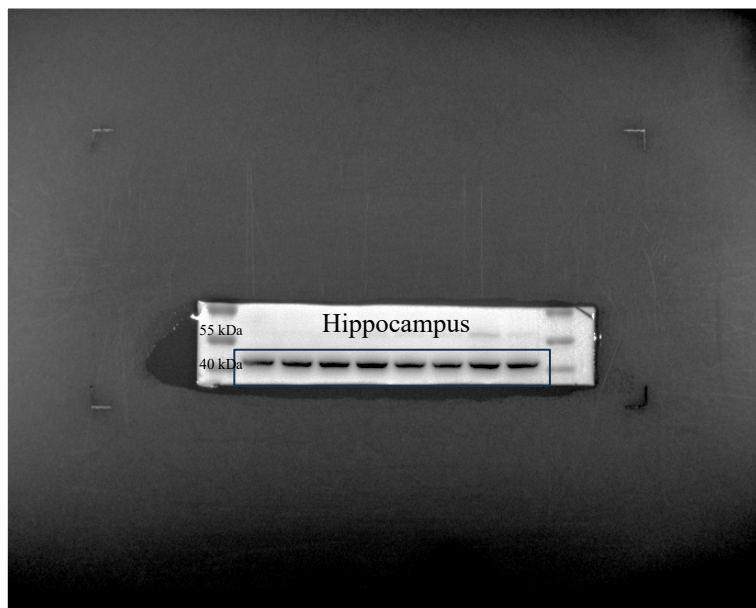
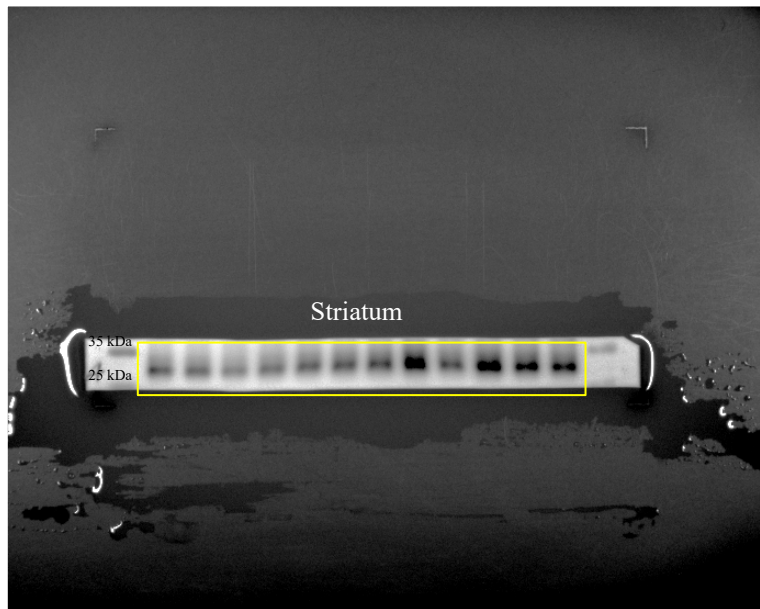
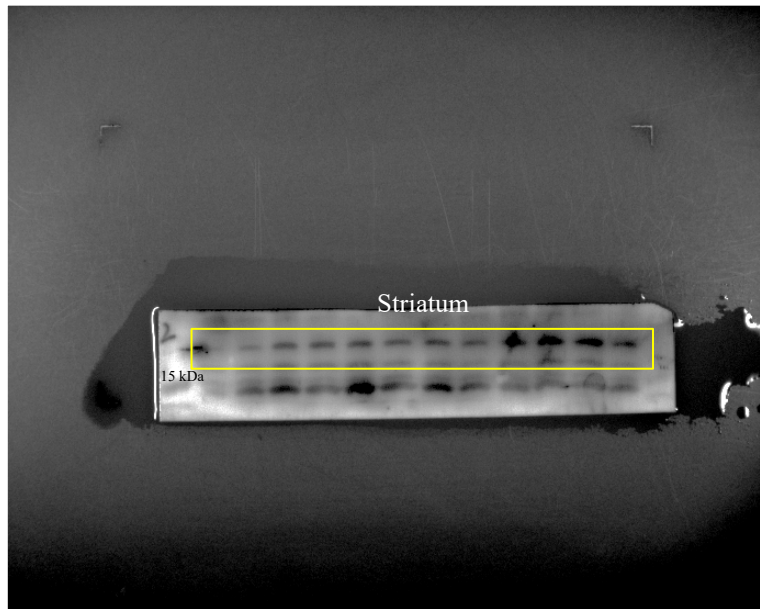


Fig. 7A

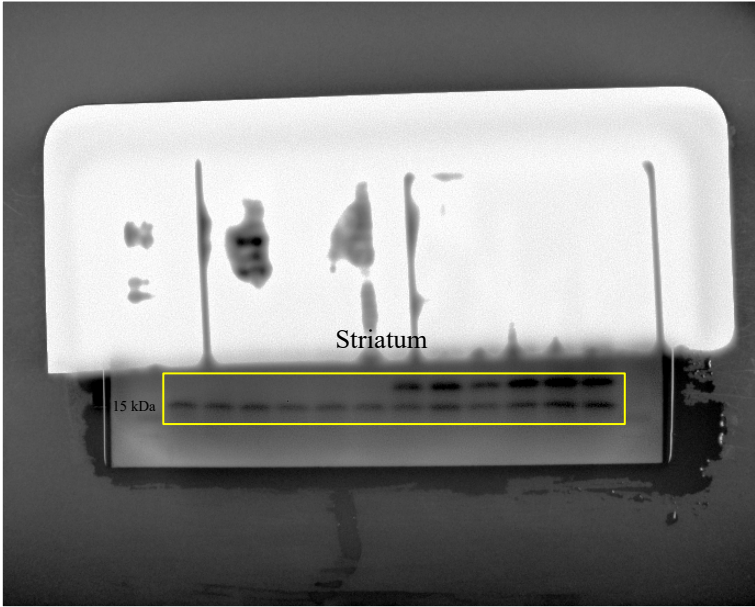
AQP4



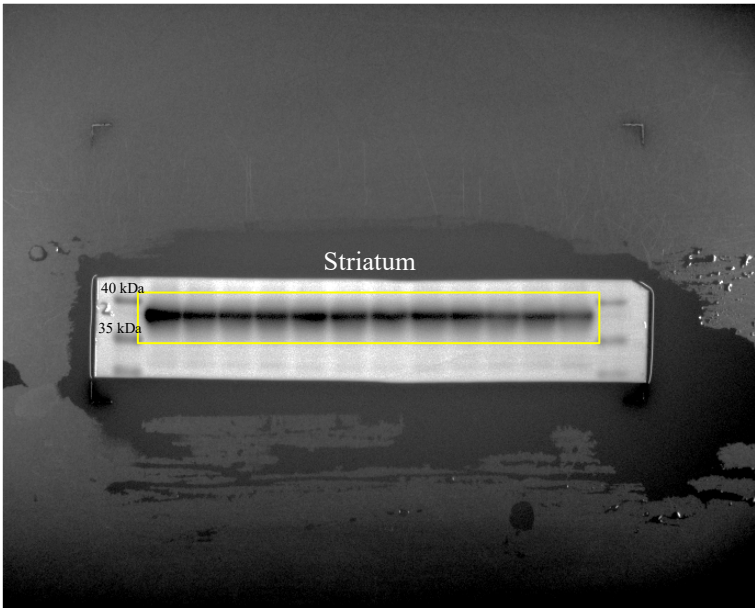
pS129- α -Syn



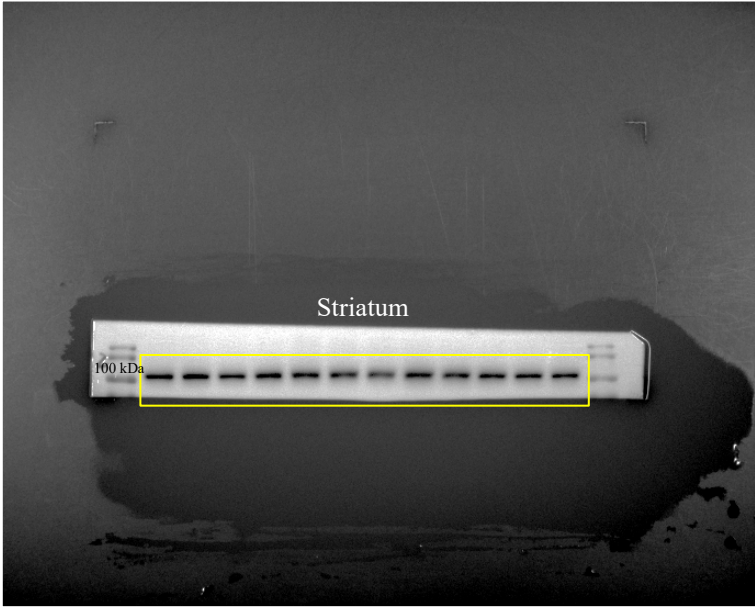
α -Syn



SYP



PSD95



TH



β -actin

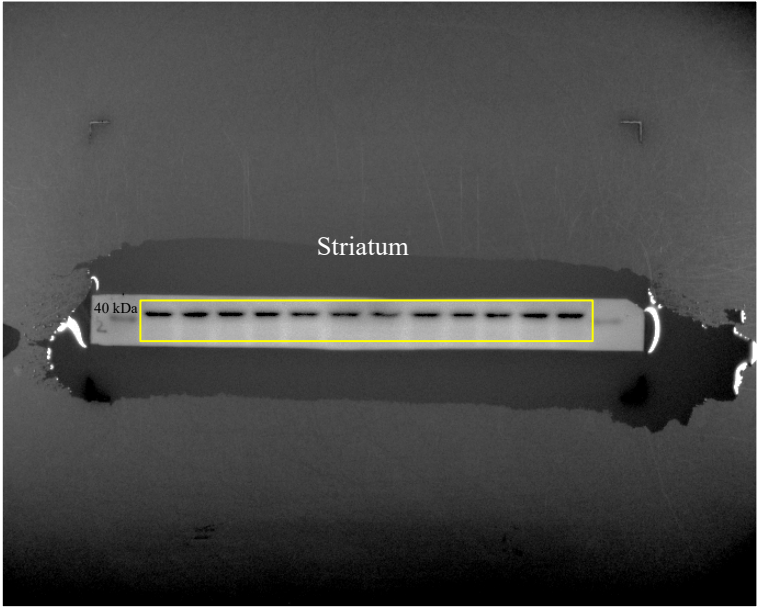
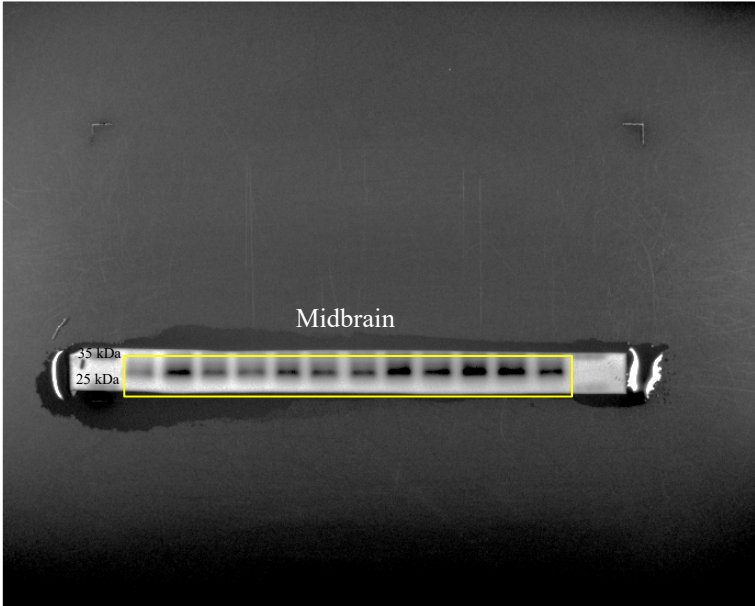
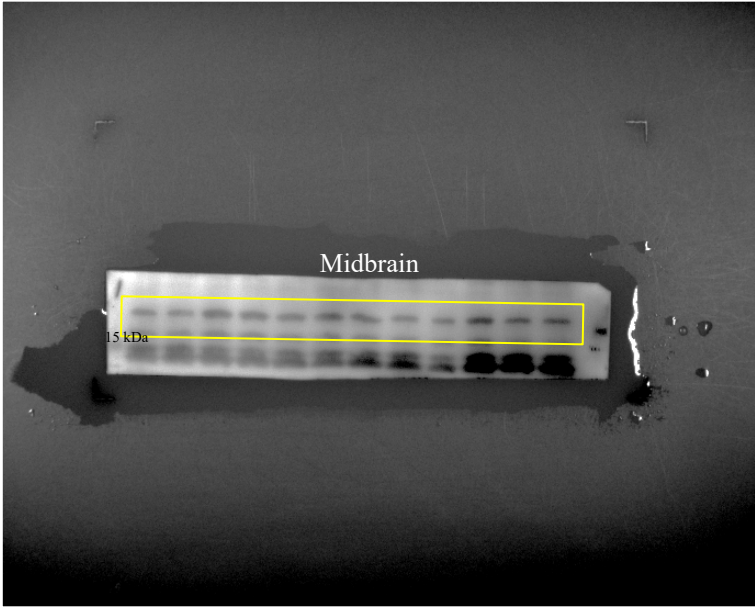


Fig. 7B

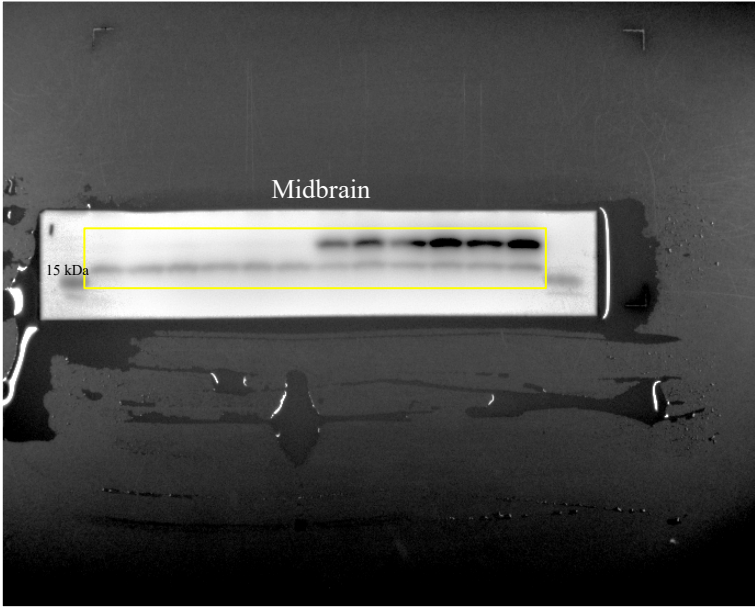
AQP4



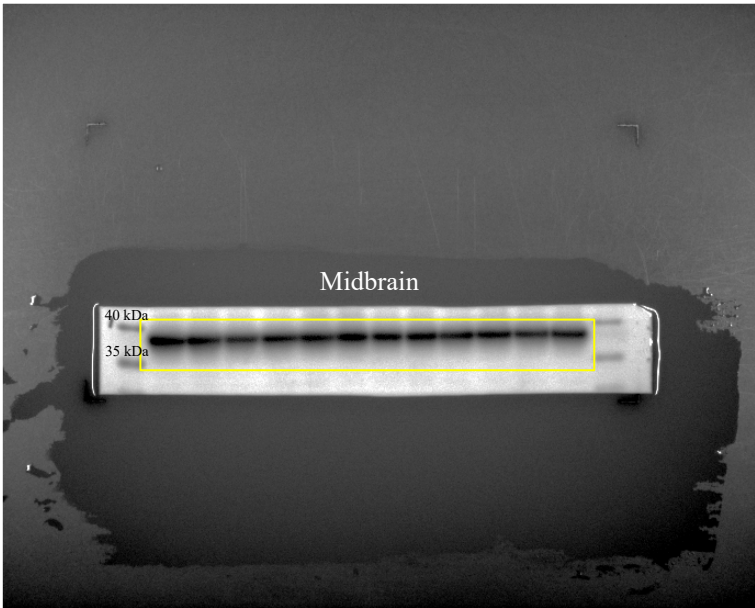
pS129- α -Syn



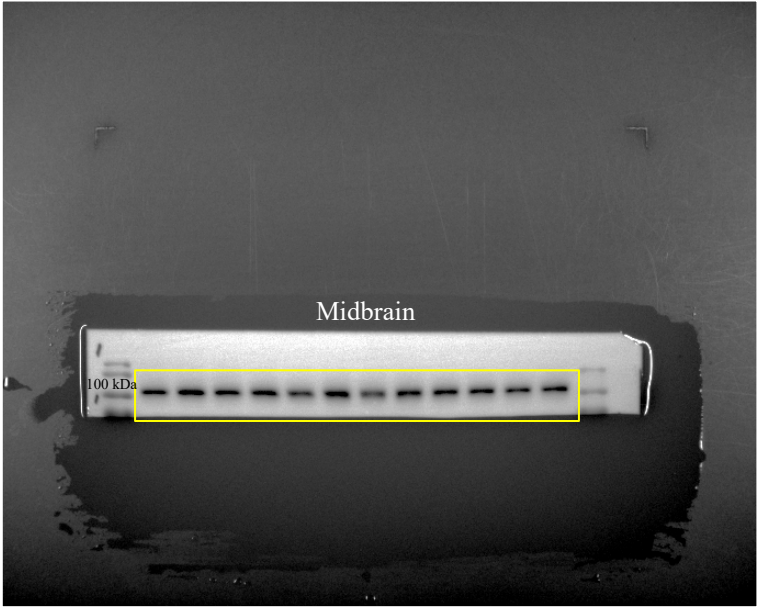
α -Syn



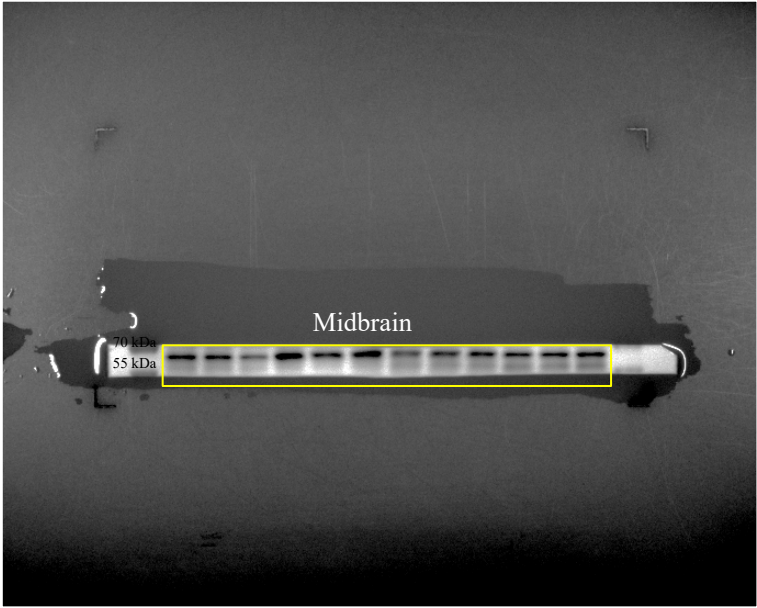
SYP



PSD95



TH



β -actin

