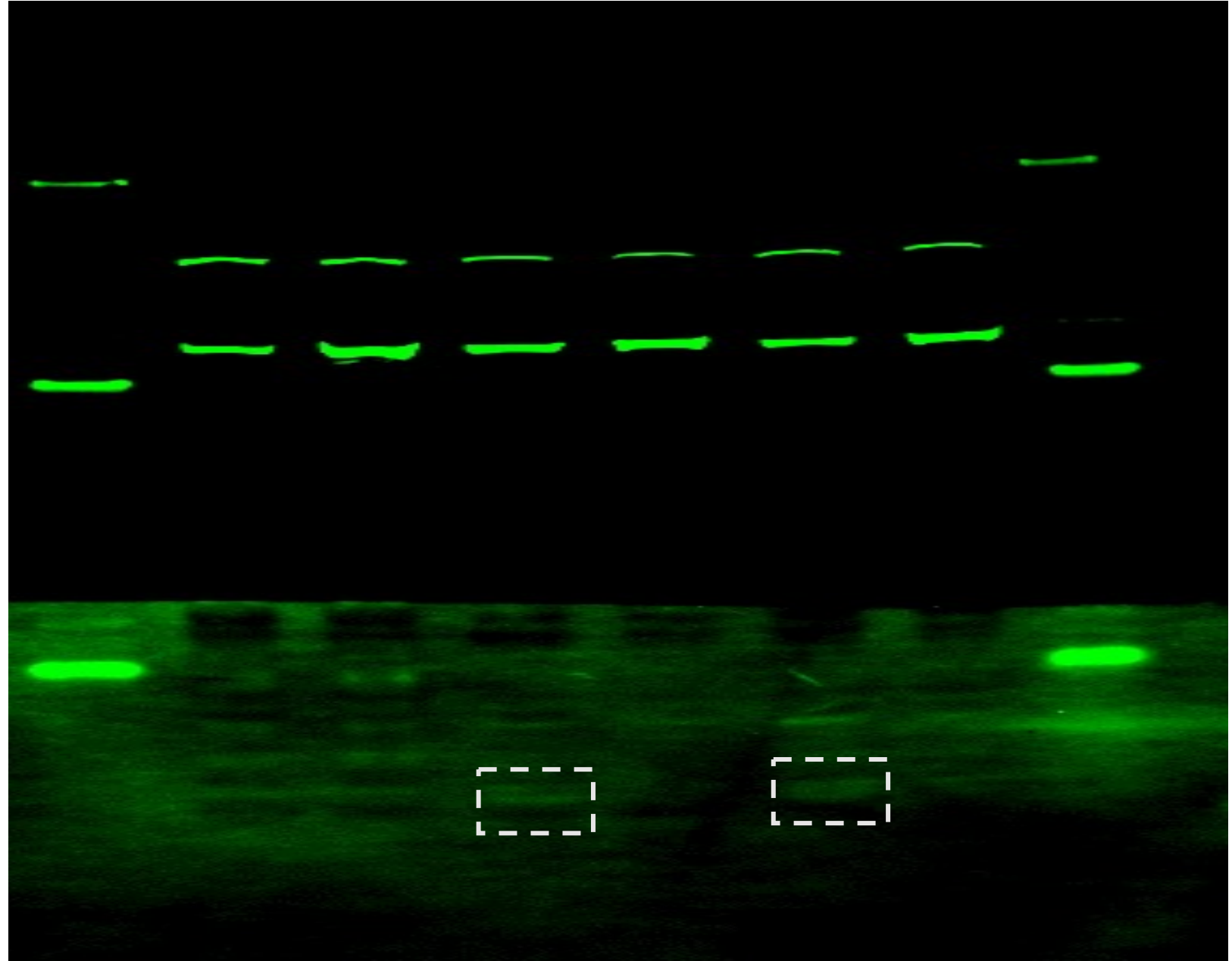
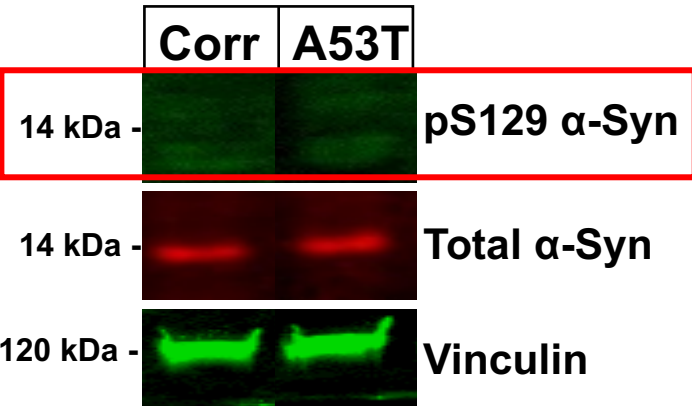


**Figure 4A:** pS129  $\alpha$ -Syn Panels  
 A53T – Disease NSC  
 Corr – Isogenic Control NSC  
 Imaged with LiCor Odyssey Dlx System

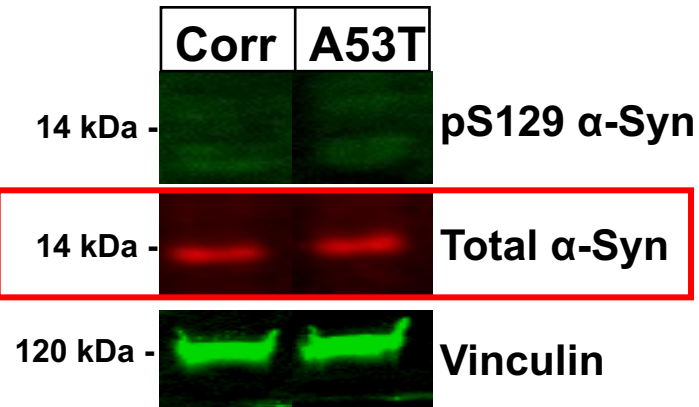
Ladder X X Corr X A53T X Ladder

70 KD  
 38 KD  
 25 KD

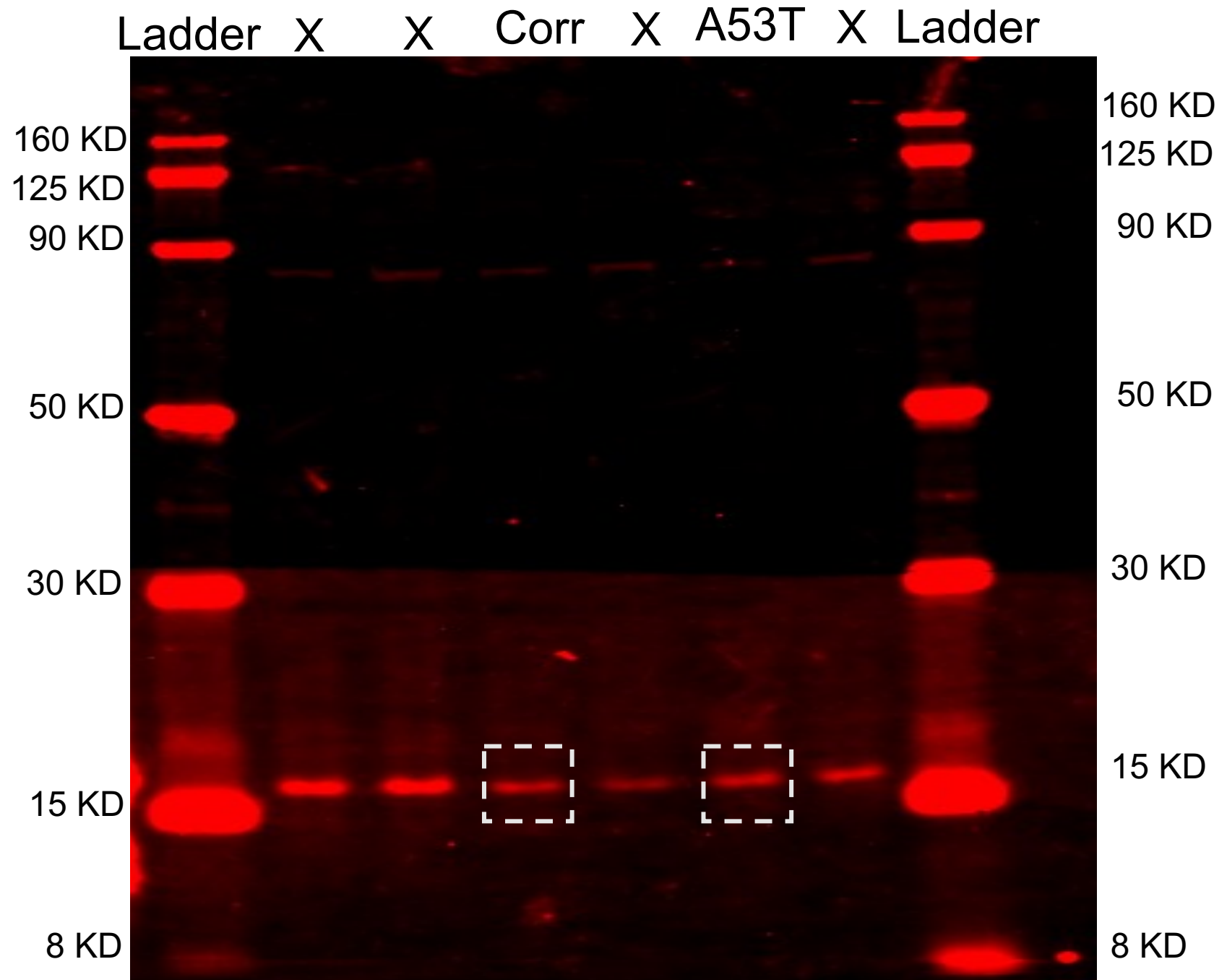


Blot was cut, both pieces included

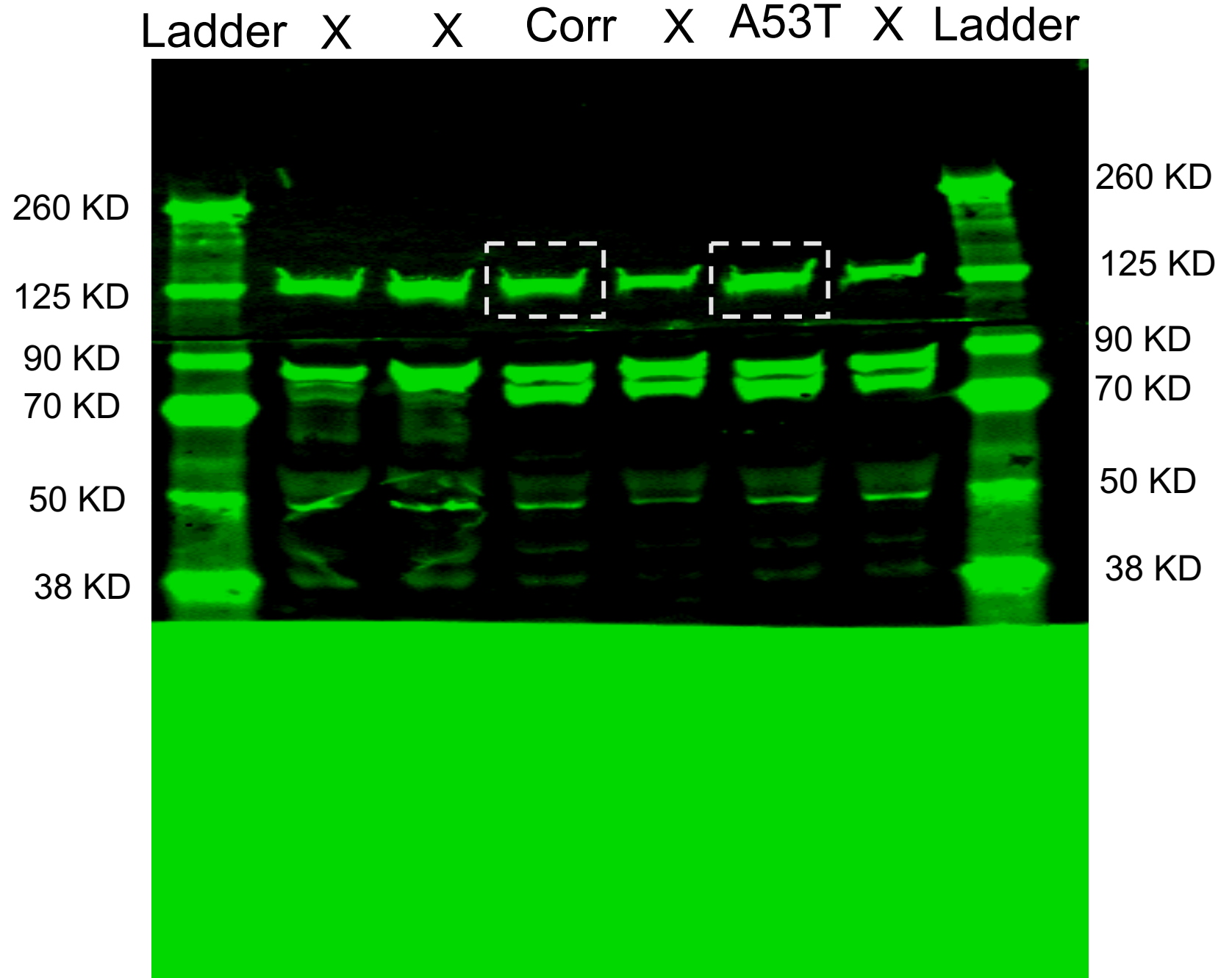
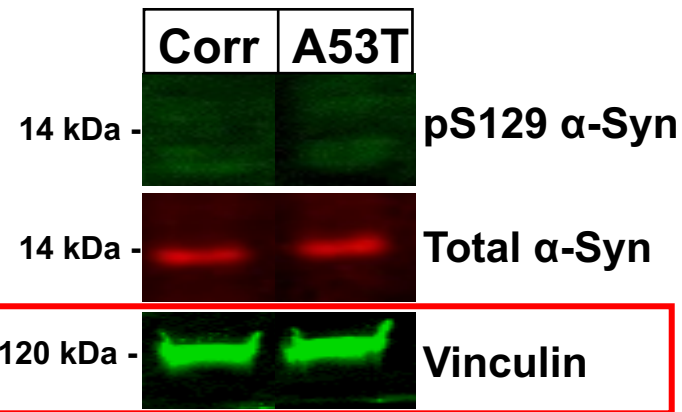
**Figure 4A: Total  $\alpha$ -Syn Panels**  
 A53T – Disease NSC  
 Corr – Isogenic Control NSC  
 Imaged with LiCor Odyssey Dlx System



Blot was cut, both pieces included



**Figure 4A:** Vinculin Panels  
 A53T – Disease NSC  
 Corr – Isogenic Control NSC  
 Imaged with LiCor Odyssey  
 Dlx System



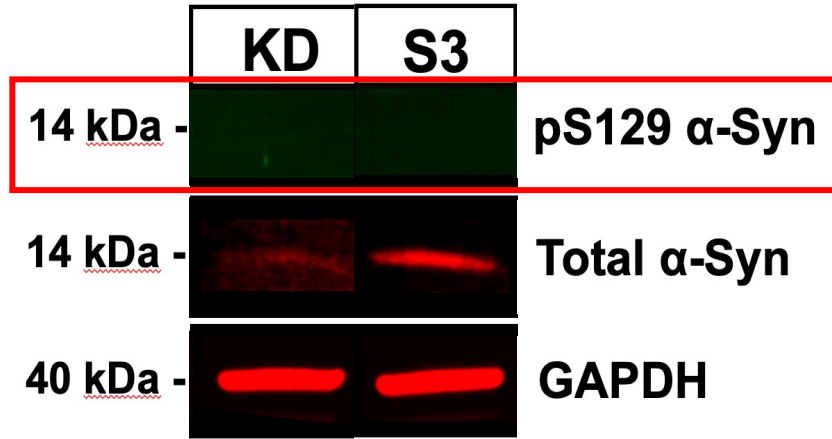
Blot was cut, both pieces included

**Figure 4B: pS129  $\alpha$ -Syn Panels**

S3 – Disease NSC

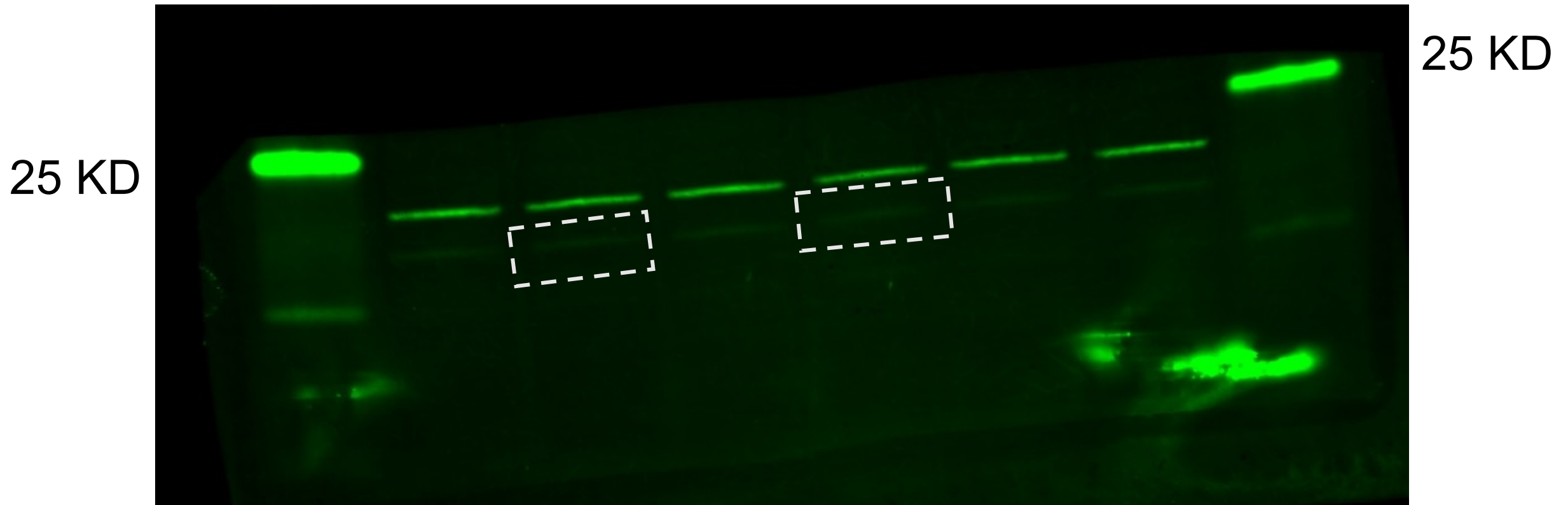
KD – Isogenic Control NSC

Imaged with LiCor Odyssey Dlx System



Blot was cut, only bottom piece included

Ladder X S3 X KD X X Ladder

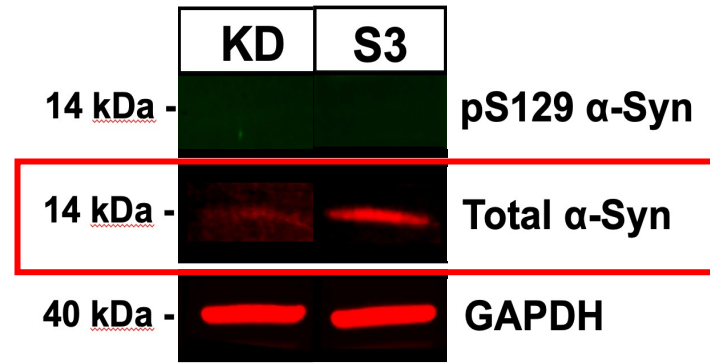


**Figure 4B: Total  $\alpha$ -Syn Panels**

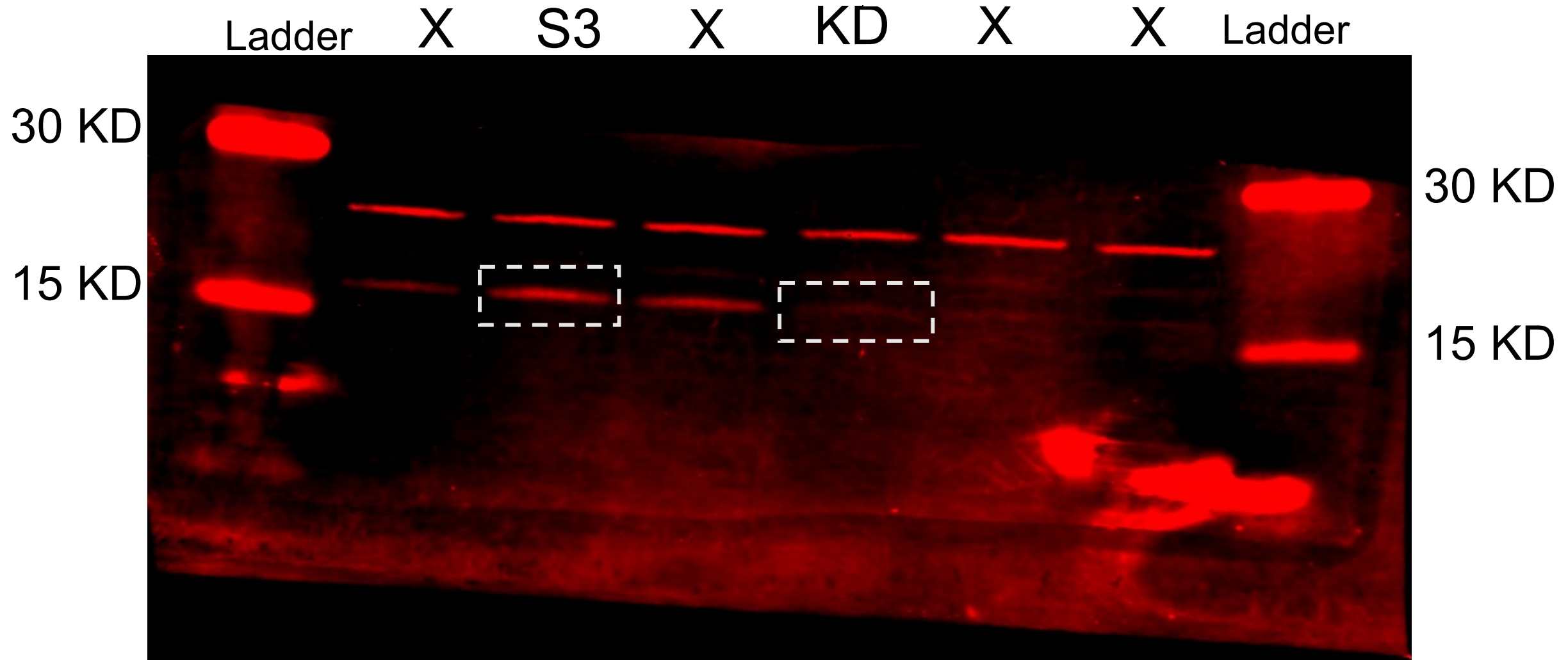
S3 – Disease NSC

KD – Isogenic Control NSC

Imaged with LiCor Odyssey Dlx System



Blot was cut, only bottom piece included



**Figure 4B:**

GAPDH Panels

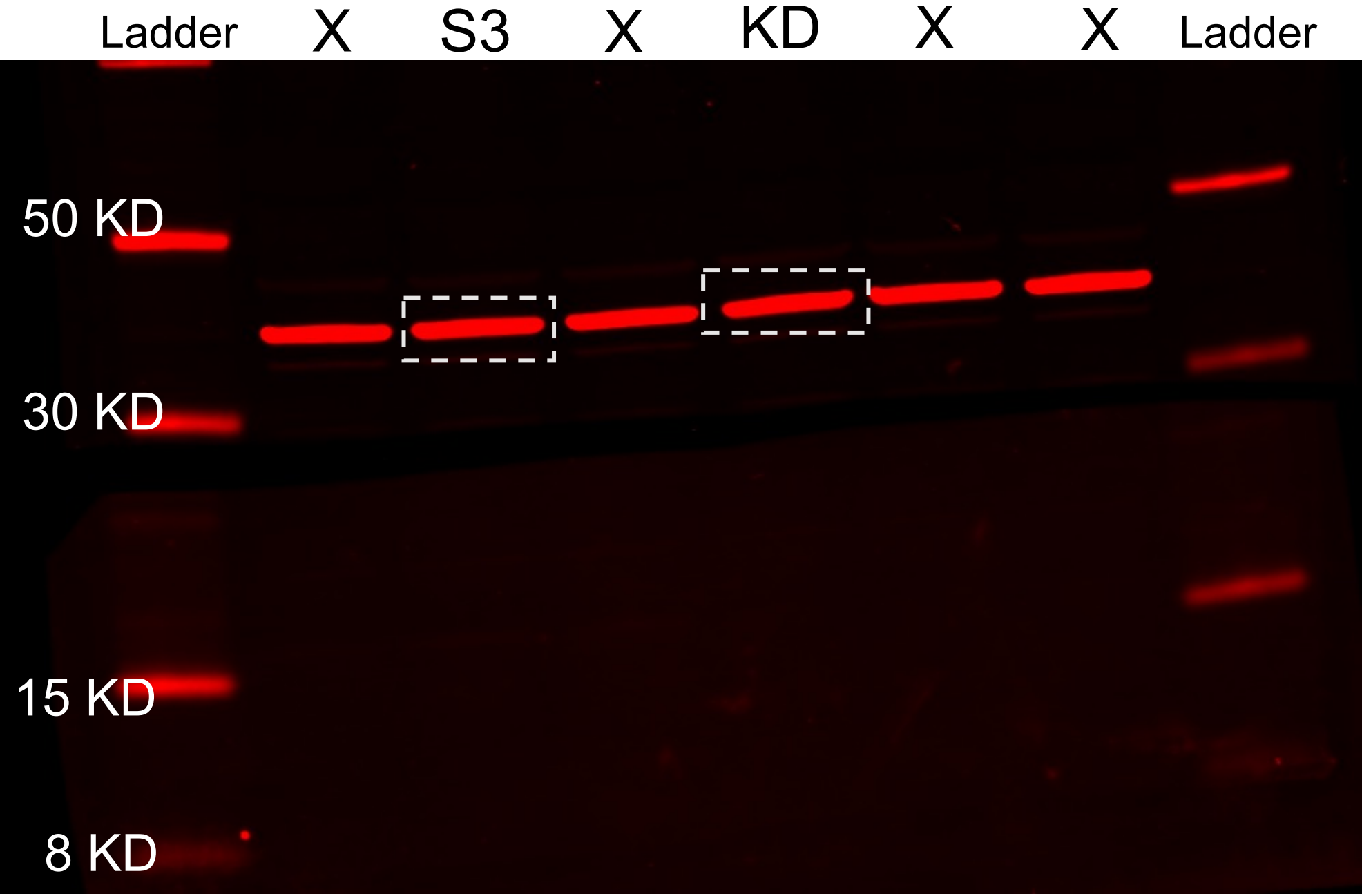
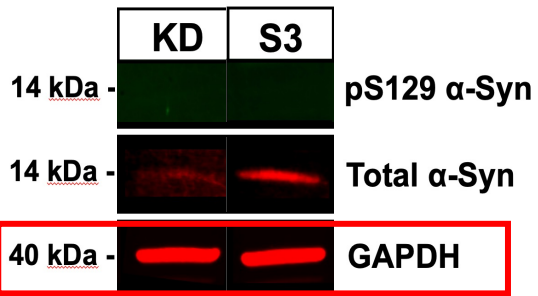
S3 – Disease NSC

KD – Isogenic

Control NSC

Imaged with LiCor

Odyssey Dlx System



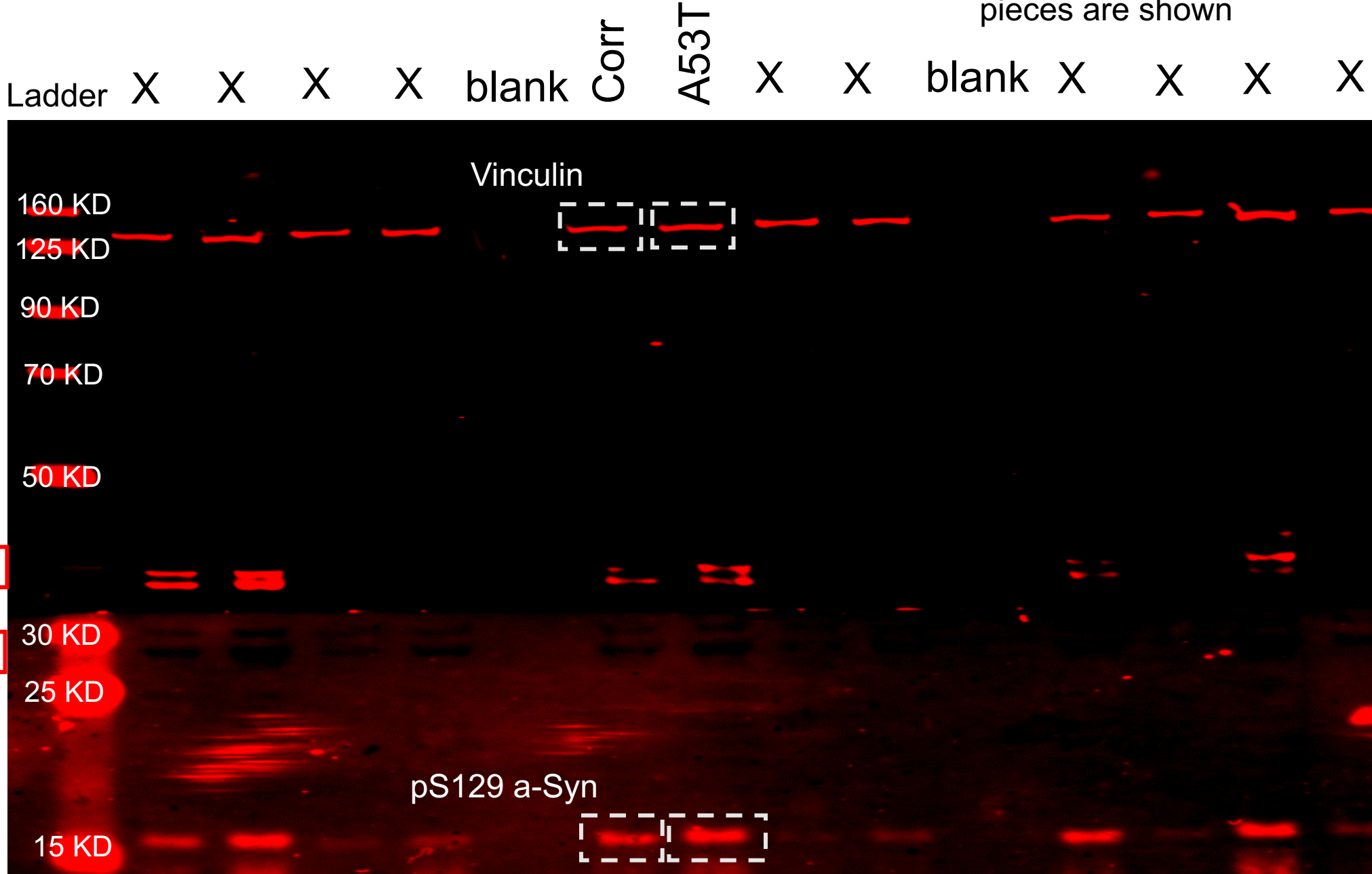
Blot was cut, only bottom piece included

**Figure 4E: Vinculin and pS129 α-Syn Panels**

A53T – Disease  
Neurospheres  
Corr – Isogenic  
Control  
Neurospheres

Imaged with  
LiCor Odyssey  
Dlx System

Blot was cut, the two cut  
pieces are shown



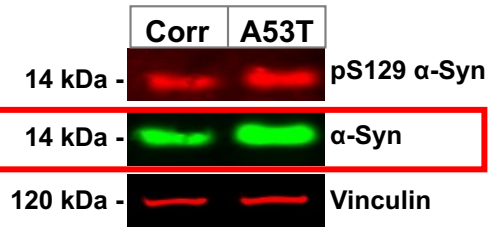
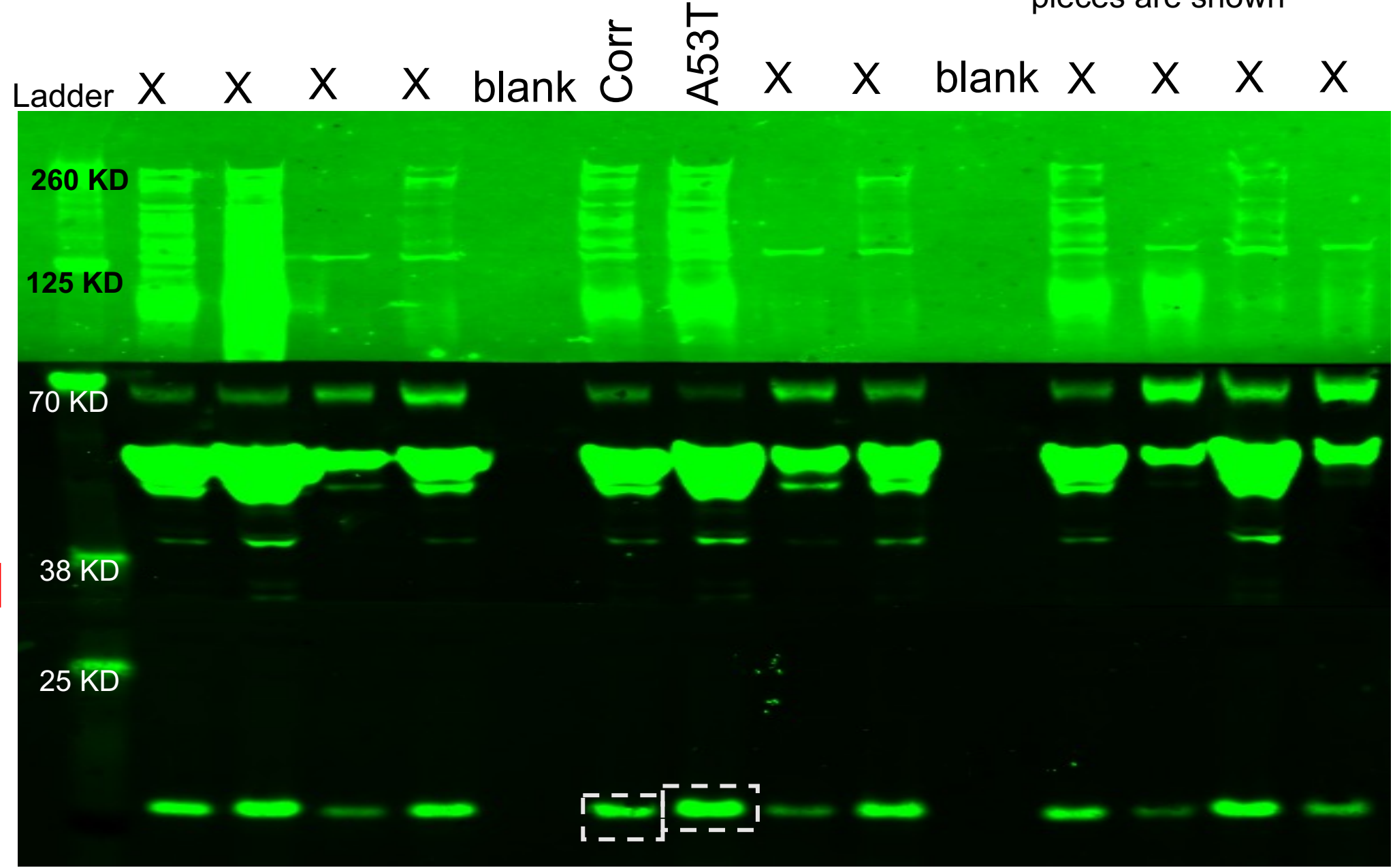
	Corr	A53T	
14 kDa -			pS129 α-Syn
14 kDa -			α-Syn
120 kDa -			Vinculin

**Figure 4E: Total  $\alpha$ -Syn Panels**

Blot was cut, the two cut pieces are shown

A53T – Disease Neurospheres  
 Corr – Isogenic Control Neurospheres

Imaged with LiCor Odyssey Dlx System



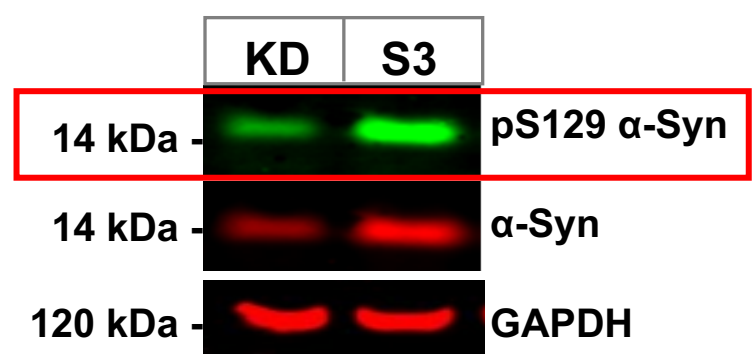


**Figure 4F:** pS129  $\alpha$ -Syn

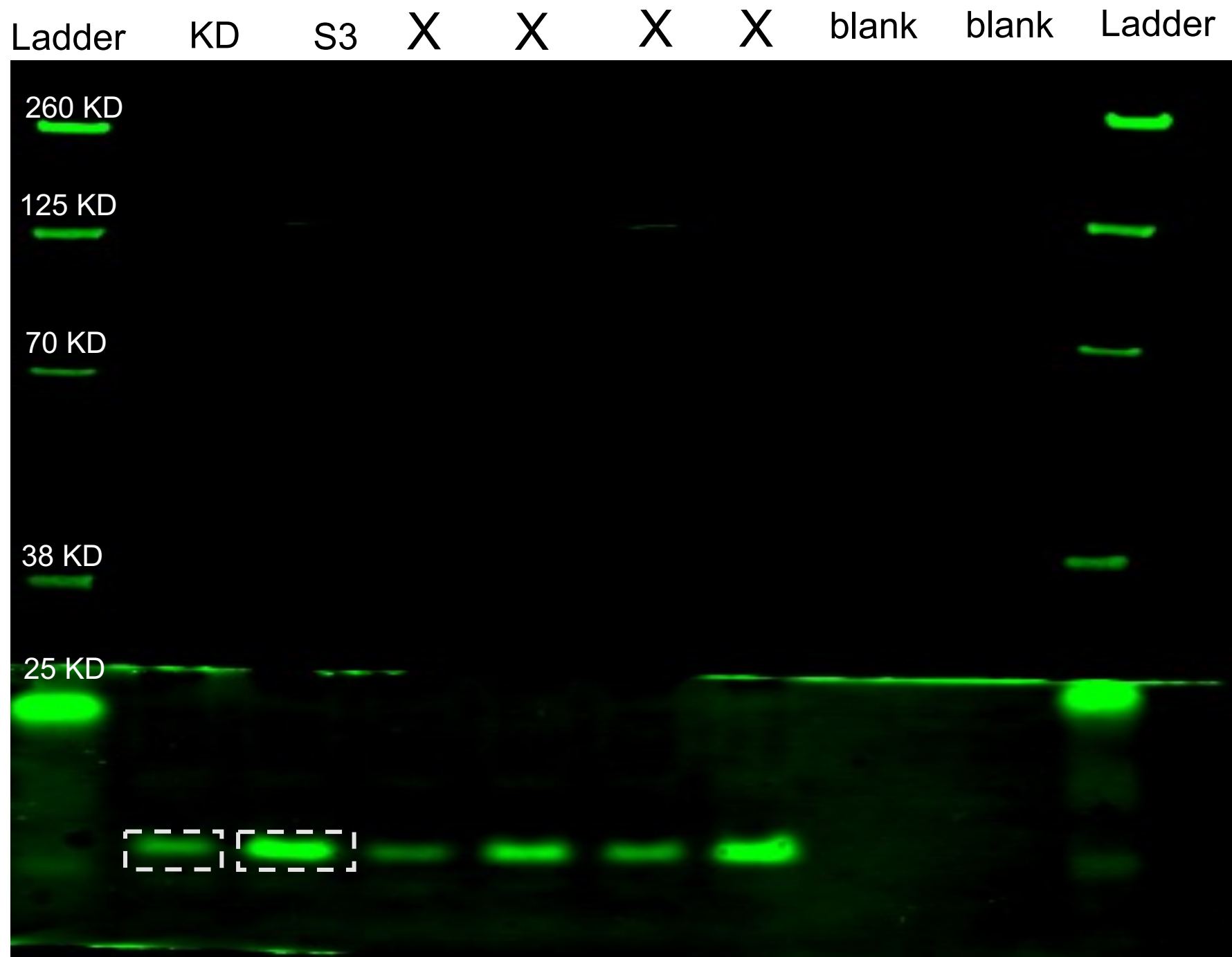
Panels

S3 – Disease  
Neurospheres  
KD – Isogenic Control  
Neurospheres

Imaged with LiCor Odyssey  
Dlx System



Blot was cut, the two cut  
pieces are shown

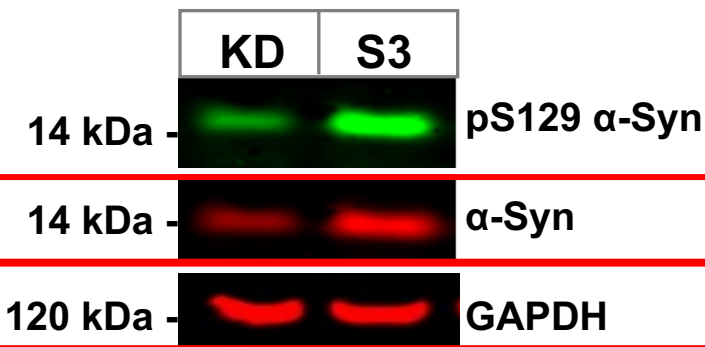


**Figure 4F:**

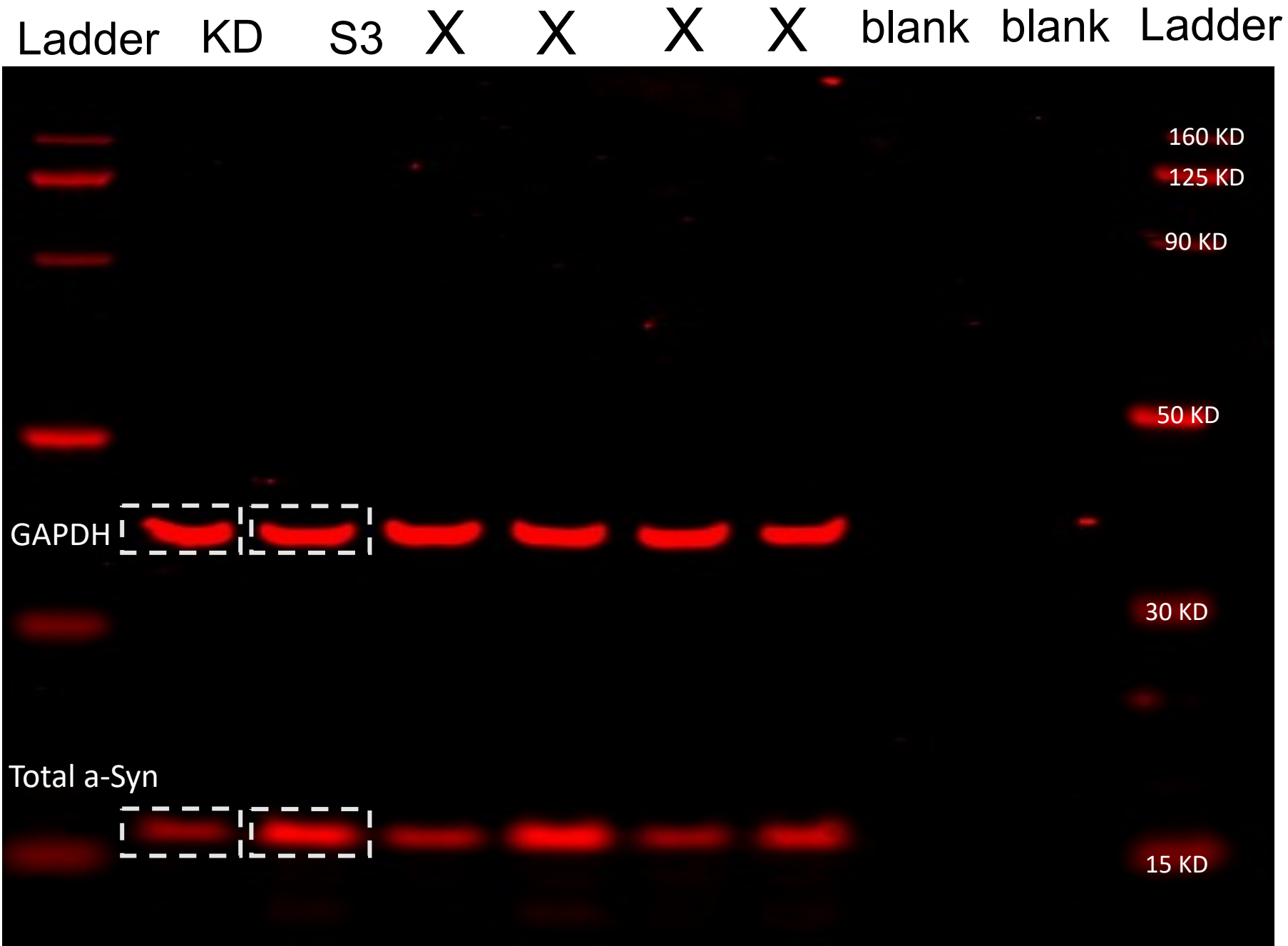
Total  $\alpha$ -Syn and GAPDH  
Panels

S3 – Disease  
Neurospheres  
KD – Isogenic  
Control  
Neurospheres

Imaged with  
LiCor Odyssey  
Dlx System



Blot was cut, the two cut  
pieces are shown



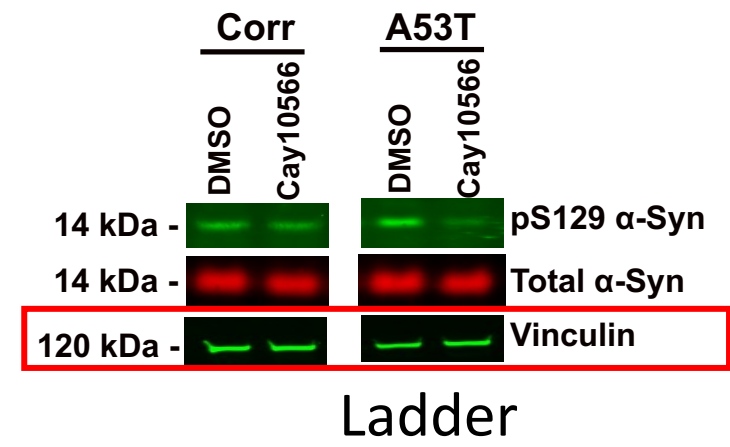
**Figure 5C: Vinculin Panels**  
 Imaged with LiCor Odyssey Dlx System

A53T DMSO – Disease Neurospheres treated with DMSO control

A53T Cay10566 – Disease Neurospheres treated with Cay10566

Corr DMSO – Isogenic Control Neurospheres treated with DMSO control

Corr Cay10566 – Isogenic Control Neurospheres treated with Cay10566



X

Corr DMSO

Corr Cay10566

X X

A53T DMSO

A53T Cay10566

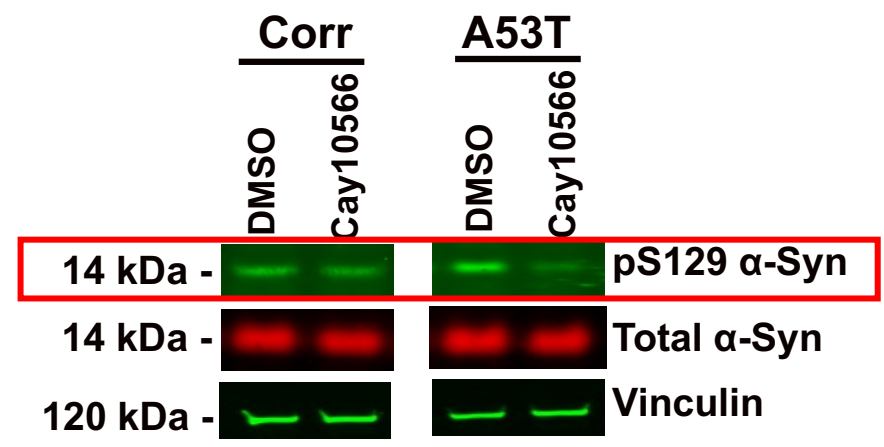
X X X



Blot was cut, only top piece is shown

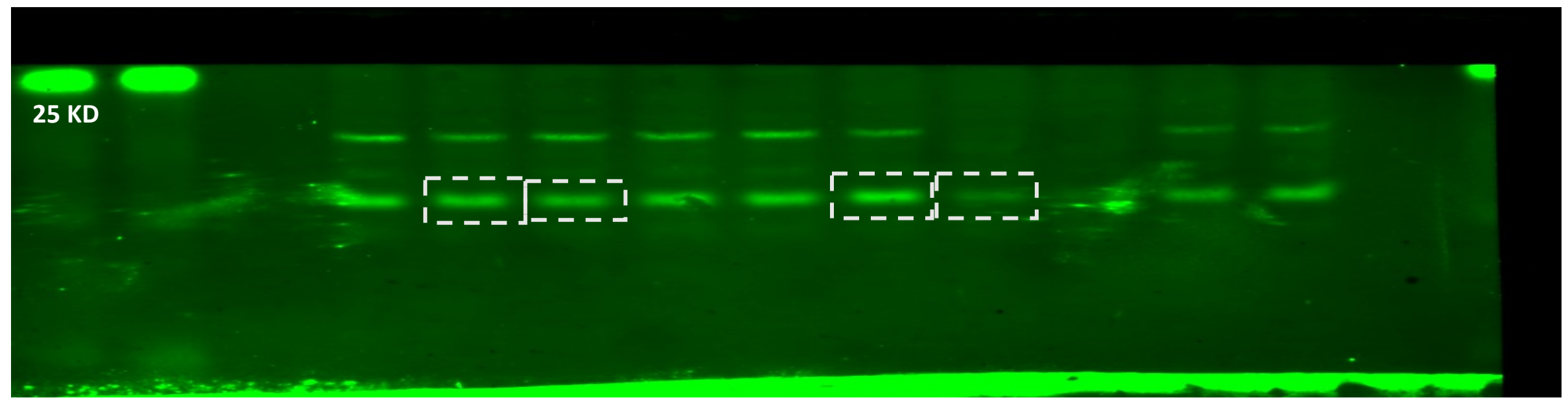
**Figure 5C: pS129 a-Syn Panels**  
 Imaged with LiCor Odyssey Dlx System

A53T DMSO – Disease Neurospheres treated with DMSO control  
 A53T Cay10566 – Disease Neurospheres treated with Cay10566  
 Corr DMSO – Isogenic Control Neurospheres treated with DMSO control  
 Corr Cay10566 – Isogenic Control Neurospheres treated with Cay10566



Ladder X Corr DMSO Corr Cay10566 X X A53T DMSO A53T Cay10566 X X X

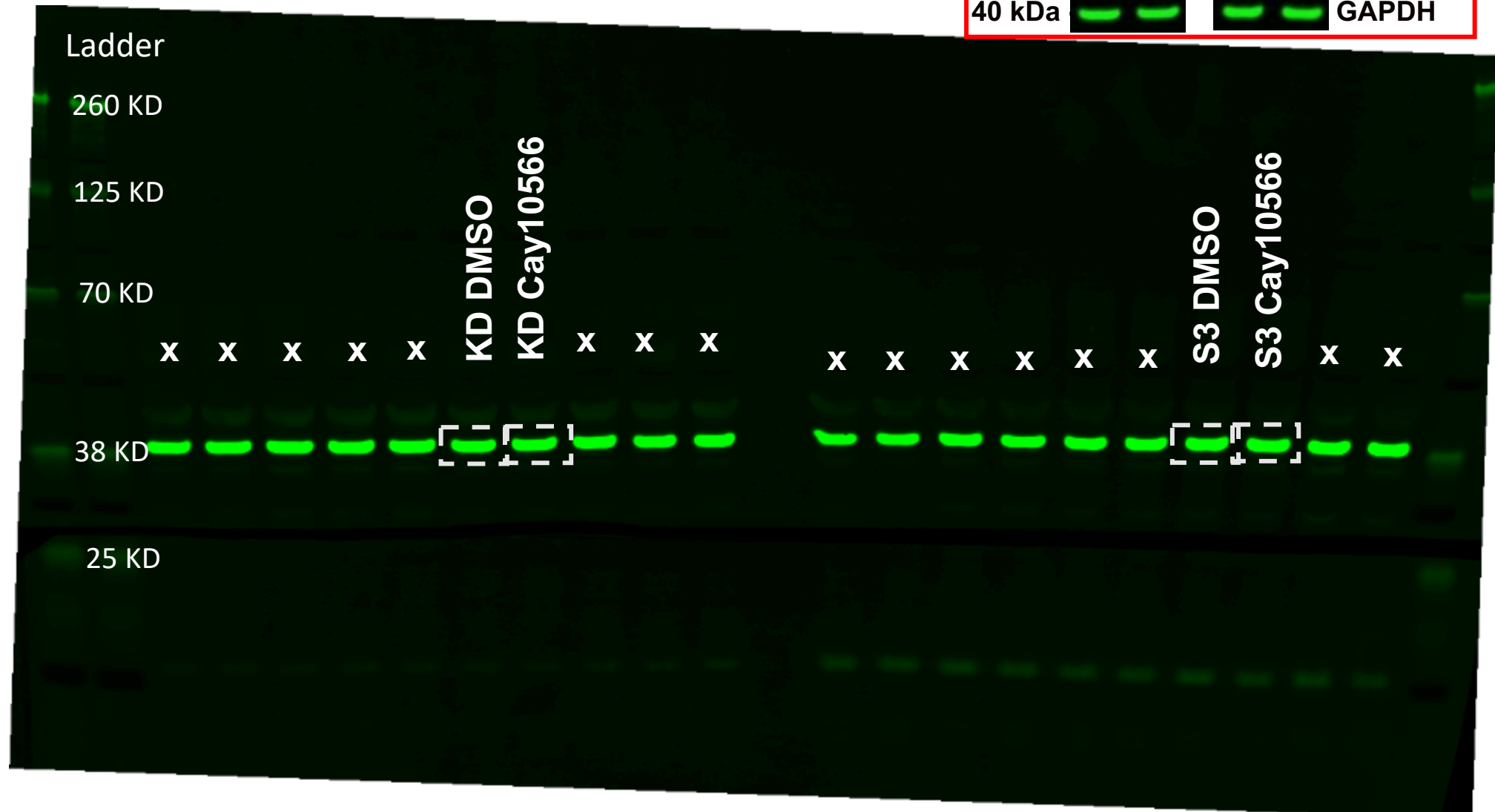
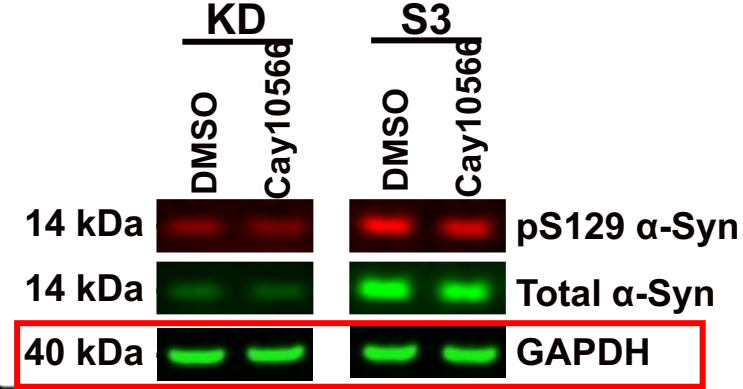
Blot was cut, only bottom piece is shown





**Figure 5D: GAPDH Panels**  
Imaged with LiCor Odyssey Dlx System

S3 DMSO – Disease  
Neurospheres treated  
with DMSO control  
S3 Cay10566 –  
Disease Neurospheres  
treated with Cay10566  
KD DMSO – Isogenic  
Control Neurospheres  
treated with DMSO  
control  
KD Cay10566 –  
Isogenic Control  
Neurospheres treated  
with Cay10566



Blot was cut, only top piece is shown

**Figure 5D: pS129 a-Syn Panels**  
 Imaged with LiCor Odyssey Dlx System

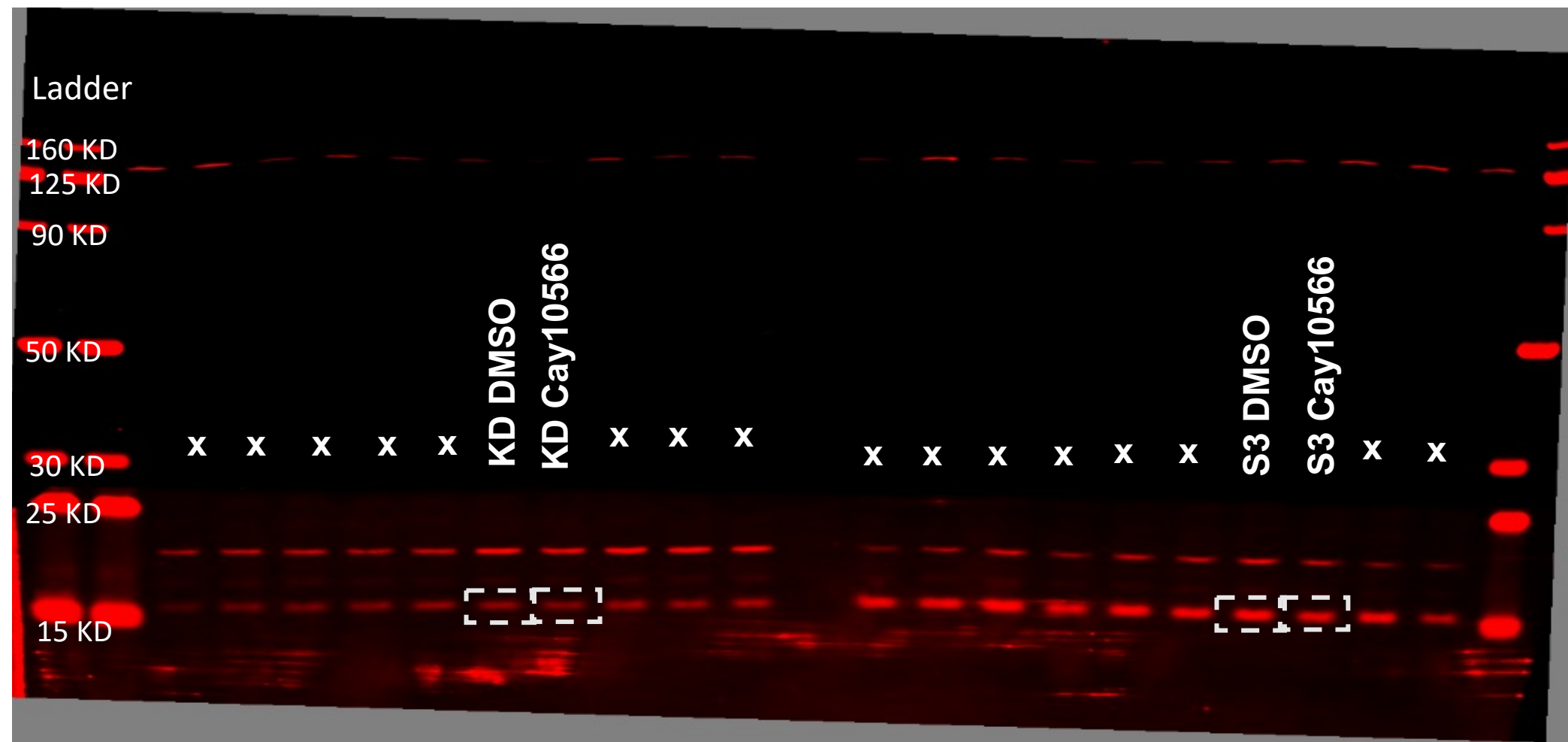
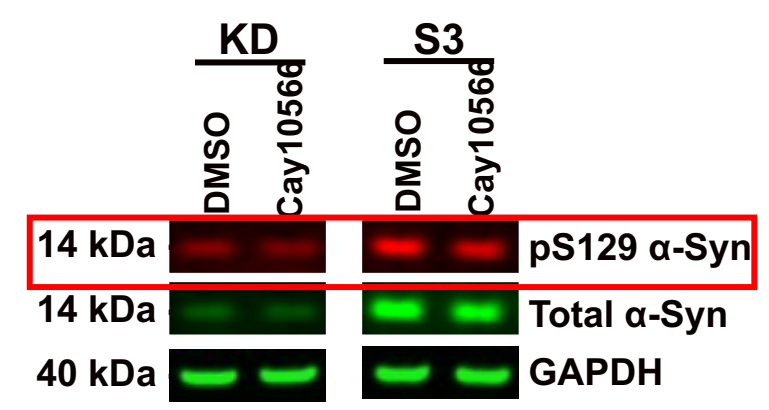
S3 DMSO – Disease  
 Neurospheres  
 treated with DMSO  
 control

S3 Cay10566 –  
 Disease  
 Neurospheres  
 treated with  
 Cay10566

KD DMSO –  
 Isogenic Control  
 Neurospheres  
 treated with DMSO  
 control

KD Cay10566 –  
 Isogenic Control  
 Neurospheres  
 treated with  
 Cay10566

Blot was cut, both  
 pieces shown

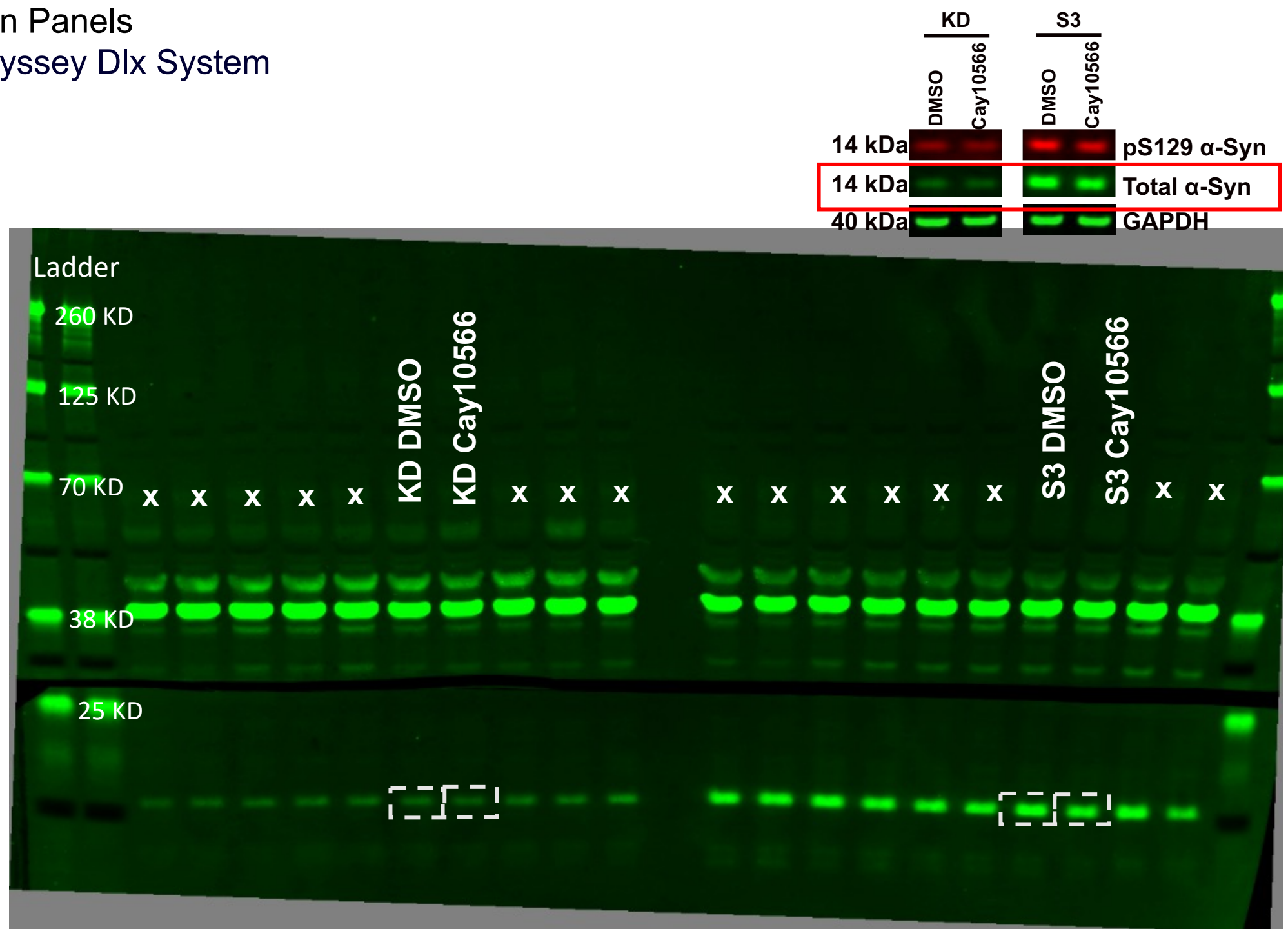


**Figure 5D: Total a-Syn Panels**  
 Imaged with LiCor Odyssey Dlx System

S3 DMSO – Disease  
 Neurospheres  
 treated with DMSO  
 control

S3 Cay10566 –  
 Disease  
 Neurospheres  
 treated with  
 Cay10566  
 KD DMSO –  
 Isogenic Control  
 Neurospheres  
 treated with DMSO  
 control  
 KD Cay10566 –  
 Isogenic Control  
 Neurospheres  
 treated with  
 Cay10566

Blot was cut, both  
 pieces shown





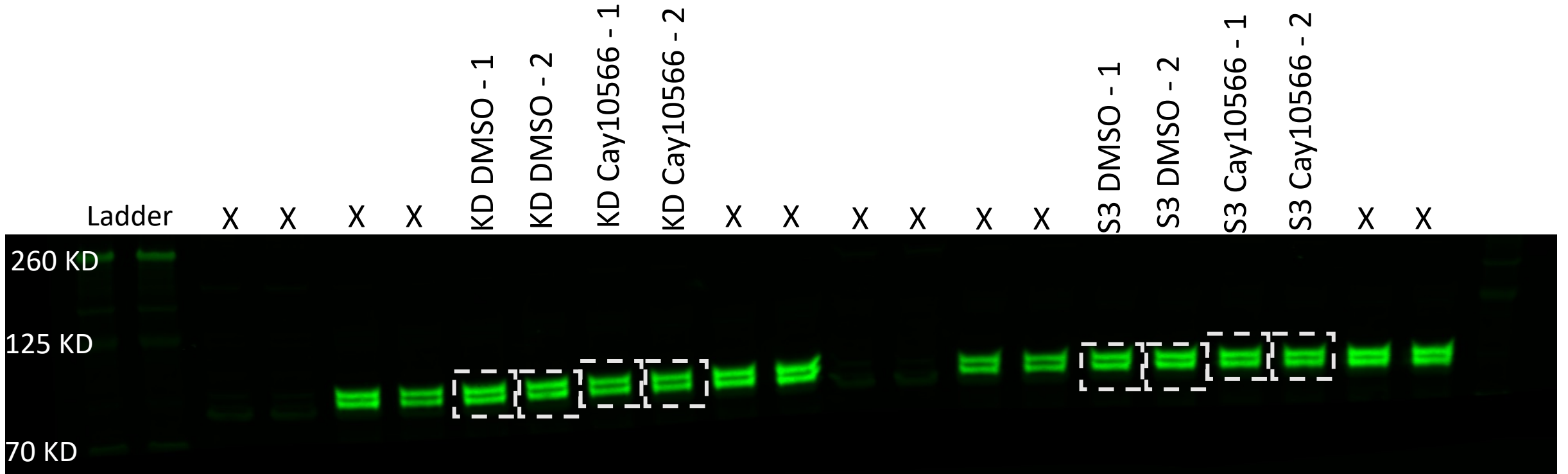
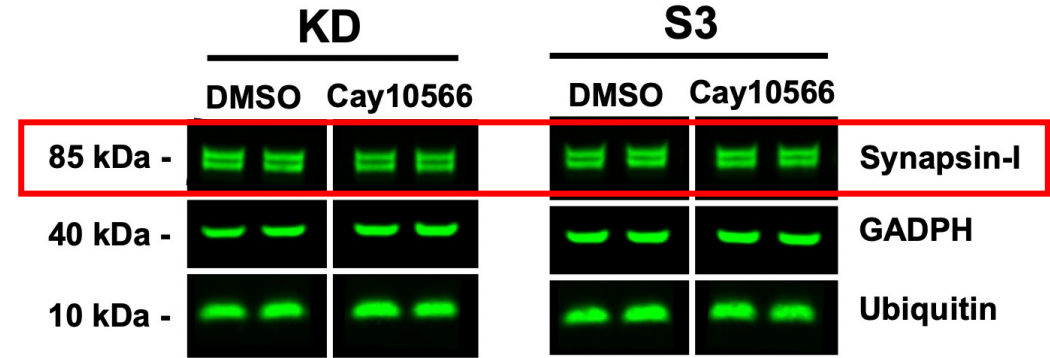
# Supplementary Figure 8: Synapsin-I Panels Imaged with LiCor Odyssey Dlx System

S3 DMSO – Disease Neurospheres treated with DMSO control

S3 Cay10566 – Disease Neurospheres treated with Cay10566

KD DMSO – Isogenic Control Neurospheres treated with DMSO control

KD Cay10566 – Isogenic Control Neurospheres treated with Cay10566



Blot was cut, only top piece shown

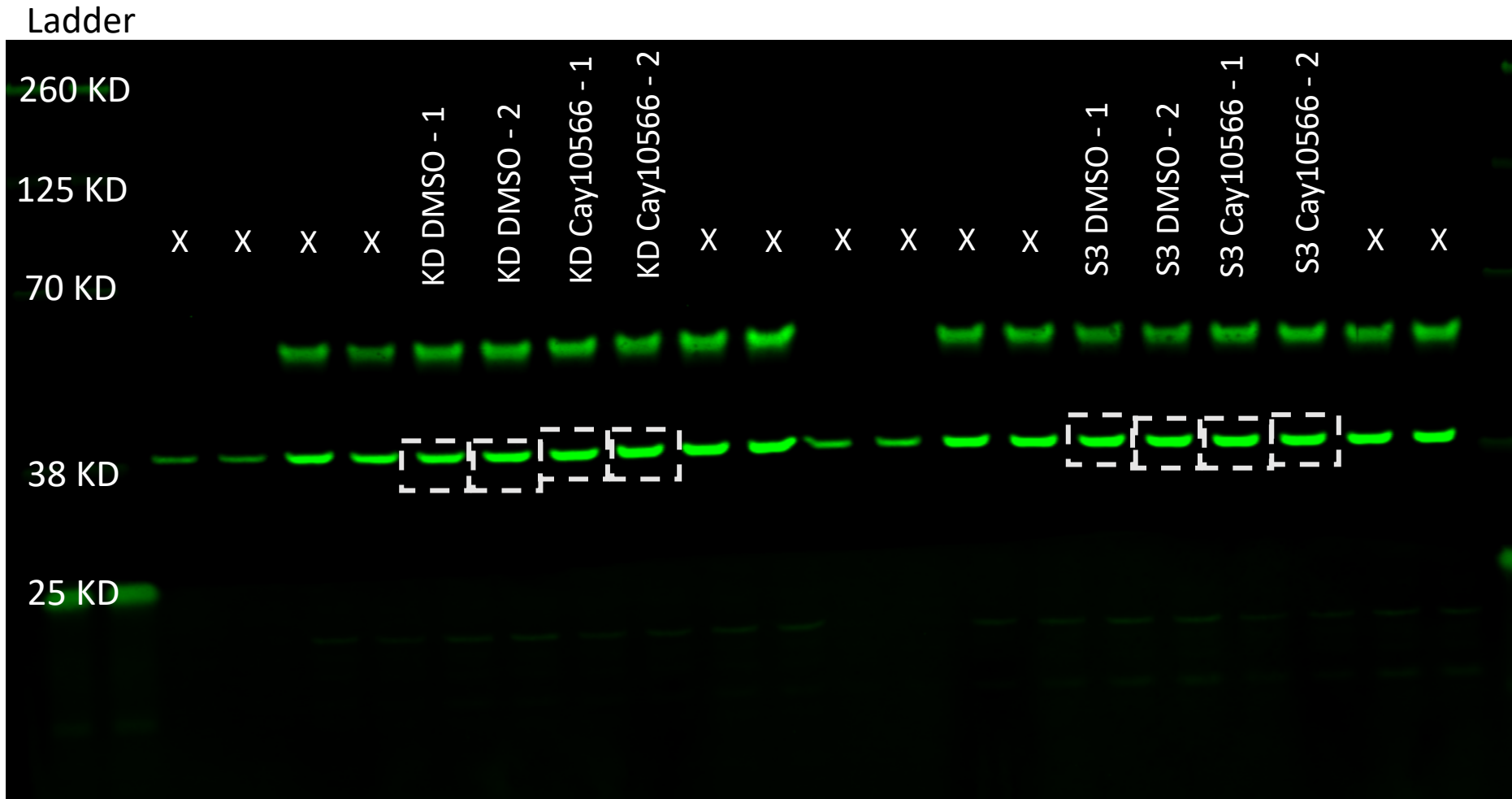
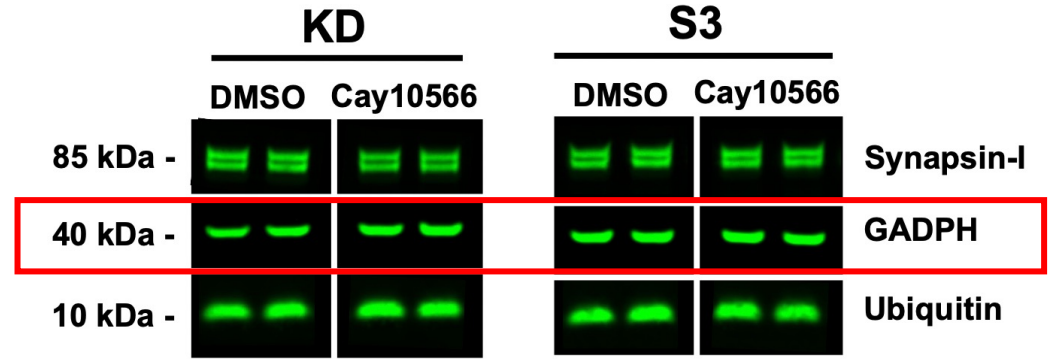
# Supplementary Figure 8: GAPDH Panels Imaged with LiCor Odyssey Dlx System

S3 DMSO – Disease  
Neurospheres treated  
with DMSO control

S3 Cay10566 – Disease  
Neurospheres treated  
with Cay10566

KD DMSO – Isogenic  
Control Neurospheres  
treated with DMSO  
control

KD Cay10566 – Isogenic  
Control Neurospheres  
treated with Cay10566



Blot was cut, both  
pieces shown

# Supplementary Figure 8: Ubiquitin Panels Imaged with LiCor Odyssey Dlx System

S3 DMSO – Disease Neurospheres  
treated with DMSO control

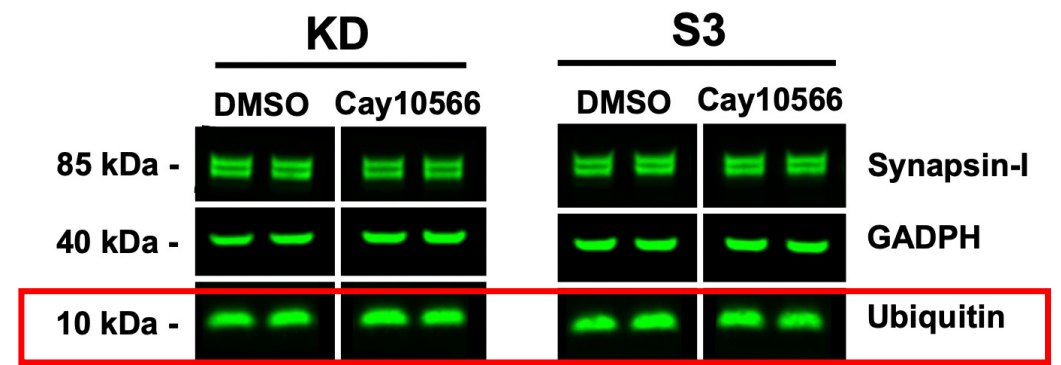
S3 Cay10566 – Disease Neurospheres  
treated with Cay10566

KD DMSO – Isogenic Control

Neurospheres treated with DMSO control

KD Cay10566 – Isogenic Control

Neurospheres treated with Cay10566



Ladder	X	X	X	X	KD DMSO - 1	KD DMSO - 2	KD Cay10566 - 1	KD Cay10566 - 2	X	X	X	X	X	X	S3 DMSO - 1	S3 DMSO - 2	S3 Cay10566 - 1	S3 Cay10566 - 2	X	X
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25 KD

Blot  
was cut,  
only  
bottom  
piece  
shown

